

PROJECT SCOPE SUMMARY REPORT (STORM WATER MITIGATION) to

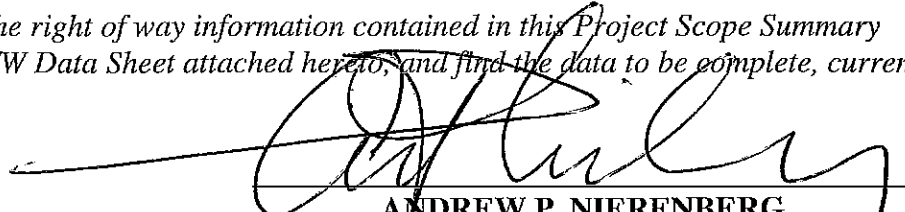
Request Programming in the 2014 SHOPP and Provide Project Approval

On LA-110; the Harbor Freeway

Between Pacific Coast Highway (PCH); (Post Mile 3.81)

And 223rd Street; (Post Mile 6.52)

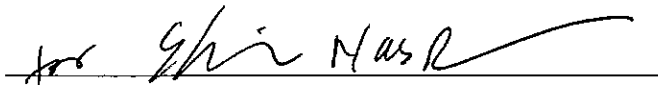
I have reviewed the right of way information contained in this Project Scope Summary Report and the R/W Data Sheet attached hereto, and find the data to be complete, current and accurate:



ANDREW P. NIERENBERG
DEPUTY DISTRICT DIRECTOR, DIVISION OF RIGHT OF WAY

APPROVAL RECOMMENDED:

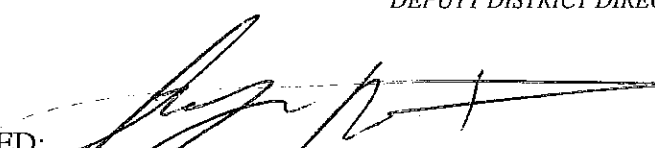

OJAS SHETH
PROJECT MANAGER

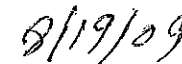
CONCURRED BY:


JAMES McCARTHY
DEPUTY DISTRICT DIRECTOR, DIVISION OF PLANNING,
PUBLIC TRANSPORTATION AND LOCAL ASSISTANCE

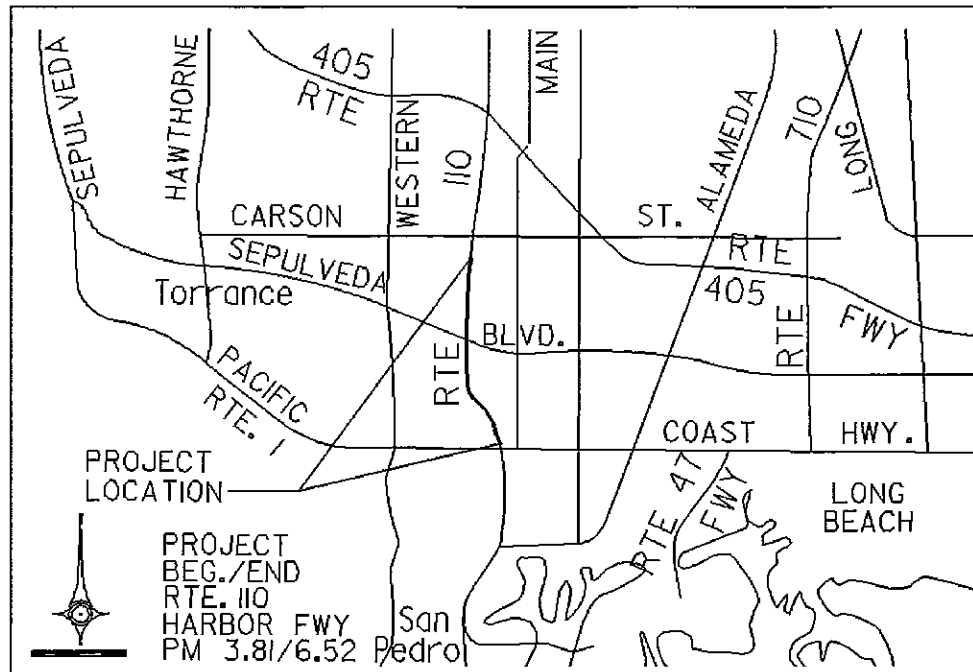

WILLIAM H. REAGAN
DEPUTY DISTRICT DIRECTOR, DIVISION OF DESIGN

APPROVED:


DOUGLAS R. FAILING
DISTRICT DIRECTOR



DATE



On LA-110; the Harbor Freeway

Between Pacific Coast Highway (PCH); (Post Mile 3.81)

And 223rd Street; (Post Mile 6.52)

This Project Scope Summary Report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

James Vu
REGISTERED CIVIL ENGINEER

8/6/09
DATE



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1. INTRODUCTION AND BACKGROUND

Introduction:

This Project Scope Summary Report (PSSR) proposes to enhance the water quality in Machado Lake by reducing the amount of pollutants discharged from the freeway. This project will treat 142 acres by means of Gross Solids Removal Devices (GSRDs) and other treatment Best Management Practices (BMPs), to be in compliance with the requirements of the Total Maximum Daily Load (TMDL) for Machado Lake Watershed that was developed by the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB).

The GSRDs and BMPs will be constructed at various storm drain/outfall discharge points along Interstate Route 110 in Los Angeles County, between Pacific Coast highway (PCH) and 223rd Street, beyond edge of pavement, and within the existing right of way.

The scope of work includes clearing and grubbing, excavation, placement of corrugated metal pipe or reinforced concrete pipe, and installation of GSRDs and other BMP devices at or near existing storm-drain/outfall discharge point locations, and installation / replacement of Metal Beam Guard Rail (MBGR).

Support cost for this project is \$2,560,000. Construction costs are currently estimated at \$9,500,000 in year 2009 dollars. If escalated at 5% per year, the construction costs would be \$12,100,000 in the proposed program year of 2014.

Project Limits (Dist., Co., Rte., PM)	07-LA-110, PM 3.81/6.52
Number of Alternatives:	Two (no-build; build)
Capital Outlay Support Cost	\$2,560,000
Capital Construction Costs	\$9,500,000
Capital Right of Way Costs:	\$0
Funding Source:	SHOPP 201.335 program
Type of Facility (conventional, expressway, freeway):	Freeway and Ramps
Number of Structures:	None
Anticipated Environmental Determination/Document	Categorical Exemption/ Categorical Exclusion
Legal Description	N/A
Project Category	Location-Specific Permit Compliance

Background

The TMDL for trash in Machado Lake Watershed has been prepared by LARWQCB pursuant to State and Federal regulations, to enhance and preserve water quality standards for the impaired waterbody within the watershed of Los Angeles County.

The California Water Quality Control Plan, Los Angeles Region, adopted by the LARWQCB, sets standards for surface waters and groundwater in the watershed region. The standards identify numeric and narrative objectives necessary to support beneficial uses and the State's Anti-degradation Policy, and are mandated

for all water bodies within the State under the Porter-Cologne Water Quality Control Act.

Section 305 (b) of the Federal Clean Water Act (CWA) mandates biennial assessment of the nation's water resources, and these water quality assessments are used to identify and list impaired waters. The resulting list is referred to as the 303(d) list. The CWA also requires States to establish a priority ranking for impaired waters and to develop and implement TMDL. A TMDL specifies the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and allocates pollutant loadings to point and non-point sources. The United States Environmental Protection Agency (USEPA) has oversight authority for the 303(d) program. The USEPA is responsible for a TMDL and approve the State's 303(d) list and each specific TMDL.

The Machado Lake Trash TMDL became effective on March 6, 2008. The TMDL requires the Responsible Agencies, including Caltrans, to reduce amount of trash deposited in the waterbody and in the storm water discharges to "zero" in eight (8) years. Responsible Agencies may implement a Minimum Frequency of Assessment and Collection Program in or adjacent to the waterbody or place full capture devices at the drainage outfalls. According to the Storm Water Project Planning and Design Guide (dated May, 2007), a full capture device is defined as "any device that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow during a one-year storm". The devices that do not meet the criteria for a full capture device will be considered as partial capture devices. Full trash capture devices will be constructed for this project.

It is possible that construction of Treatment BMPs at certain outfall/discharge point locations could have an impact on existing traffic, adjacent railroads, underground utilities, and on environmental issues. Not all outfalls have been selected for BMP treatment. Although final selection of Treatment BMPS will be done at the PS&E project phase, it is anticipated that the BMPS recommended in this document are feasible. The selection of a BMP requires an understanding of the types of pollutants that the BMPs are designed to remove. The table below provides a list of pollutants, and the types of Treatment BMPs that can be used:

Applicable Treatment BMPs and Targeted Pollutants of Concern¹

Pollutants	Treatment BMPs			
	Gross Solids Removal Devices (GSRDs)	Biofiltration Systems	Media Filters	Infiltration Devices
Total Dissolved Solids		X	X	X
Nutrients			X ²	X
Pesticides				X
Particulate Metals		X	X	X
Dissolved Metals		X	X	X
Pathogens				X
Litter	X	X	X	X
Biochemical Oxygen Demand				X
Total Dissolved Solids				X

Notes: 1 Reference: Table 2.2, Caltrans Storm Water Quality Handbook, Project Planning and Design Guide, May 2007

2 Phosphorus and Nitrogen for the Austin Sand Filter; Phosphorus only for the Delaware Sand Filter.

2. RECOMMENDATION

It is recommended that this project be programmed, for Caltrans compliance with TMDL requirements.

The BMPs selected for this project are feasible. However, a draft Technical Memorandum, "Corridor Stormwater Management Study, Location LA-110 (PM 0.8/31.9)", dated May 11, 2009, proposes BMPs that differ at some locations within the project boundaries, from those selected in this PSSR.

These differences need to be further explored at the PS&E phase of the project. As The Technical Memorandum is a draft document, it is subject to change. Once it is approved, the Technical Memorandum needs to be studied so that the BMP selection for this project can be finalized.

3. PURPOSE AND NEED STATEMENT

Purpose:

Caltrans has a Statewide National Pollution Discharge Elimination System Permit (Order No 99-06-DWQ) issued by the State Water Resources Control Board. Caltrans is subject to the policies, prohibitions, and requirements of the Regional Water Quality Control Board Basin Plans via its NPDES Permit. The purpose of this project is to comply with the requirements found in the Basin Plans. It seeks to attain water quality standard for trash in Machado Lake Watershed.

Need:

The Machado Lake Trash TMDL became effective on March 6, 2008. The TMDL requires the Responsible Agencies, including Caltrans, to reduce amount of trash deposited in the waterbody and in the storm water discharges to "zero" in eight (8) years. Responsible Agencies may implement a Minimum Frequency of Assessment and Collection Program in or adjacent to the waterbody, or place approved full capture devices at the drainage outfalls.

If this project is not implemented, water quality in the Machado Lake Watershed will continue to deteriorate.

4. EXISTING FACILITY, DEFICIENCIES AND TRAFFIC DATA

Within the project limits, the freeway consists of four 12-foot lanes in each direction, a concrete median barrier with inside shoulders varying from 1 foot to 10 feet in width, and outside shoulders varying from 8 feet to 10 feet in width.

The adjacent land use is 2/3 residential, with soundwalls in place along the freeway. The remaining 1/3 is commercial / industrial. The primary pollutant of concern appears to be litter. Installing GSRD at outfalls along the freeway would greatly reduce trash coming from the freeway. However, litter from numerous homeless encampments along this segment of the freeway would still be an issue.

Annual Average Daily traffic (AADT) in Year 2008, the most recent year for which counts are available, varied from 108,000 to 180,000.

Trucks comprise about 6% of the total vehicles, and 48% of these are 5-axle or greater.

5. CORRIDOR AND SYSTEM COORDINATION

Programmed projects within the limits of, or adjacent to this project, are described in the following table:

Adjacent or related Projects on LA-110			
EA	PostMile	Type	Status
187801	4.1/20.7	Construct overhead signs and Roadway Rehab	RTL 10/13
23450K	0.0/21.2	Construct OH guide and retro-refl sign panel	RTL 05/12
256101	0.08/21.4	Upgrade end treatment and crash cushion	RTL 11/09
3Y9101	0.9/10.6	PCC Profile Grinding	RTL 10/09
2P8501	1.60/6.35	Replace deteriorated PCC slabs	RTL TBD

RTL = Ready to List; TBD = to be determined

6. ALTERNATIVES

There is one "build" alternative proposed in this PSSR, presented in Section 6A below:

6A. Proposal:

32 outfalls/discharge points were investigated for this project. 23 of these are feasible locations for construction of Treatment BMPs. The remaining 9 locations were either abandoned or unidentifiable, or were inaccessible.

It was noted that infiltration basins are preferred over detention basins. Choice of Treatment BMP types for the 2 proposed detention basins at Sepulveda loop ramps should be revisited at PS&E stage. If the sub-surface soil type is suitable, infiltration basins should be selected.

See Attachment C, Outfall/Discharge Point Data List, for specific Treatment BMPs recommended, and Attachment J, Stormwater Data Report for site details.

6B. Design Exception:

None

6C. Environmental Compliance:

The environmental document for this project is a Categorical Exemption/ Categorical Exclusion (CE/CE). See Attachment G1.

6D. Hazardous waste:

There is a potential of Aerially Deposited Lead (ADL) contamination of the soil at the locations of the proposed Treatment BMPs. A site investigation will be required for this project at the PS&E phase, and appropriate mitigation of ADL-contaminated soil will be determined at that time. Funds for hazardous waste investigation work are included in the Cost Estimate.

6E. Other Agencies Involved:

Agencies may include, but are not limited to:

- California Department of Fish and Game
- U.S. Army Corps of Engineers
- California Coastal Commission.
- City of Los Angeles
- City of Carson
- County of Los Angeles

The LARWQCB will enforce and monitor the implementation of the various TMDLs. No other agency involvement is expected in this implementation of the PID.

6F. Highway planting and irrigation:

When the trash capture devices are constructed in the existing landscaped area, vegetation will be cleared during construction. Since these devices have small footprints, the impact to the existing planting will be kept to a minimum. All disturbed areas including existing irrigation lines will be restored after construction.

6G. Roadside Design and Management:

BMP Trash-capturing devices will be protected by the installation of guard rail. Funds for guardrail construction are included in the Cost Estimate.

6H. Stormwater Compliance:

A Storm Water Data Report (SWDR) for this project, prepared in accordance with the Storm Water Quality Handbook-PPDG, (May 2007), was approved on June 16, 2009 (See Attachment J, SWDR).

6I. Right of way Issues (include utility issues):

All proposed work will take place within the Caltrans existing right of way. (See Attachment H, Right of Way Data Sheet.)

6J. Railroad Involvement:

None

6K. Salvaging and recycling of hardware and other non-renewable resource:

Not applicable

6L. Prolonged temporary ramp closures:

None

6M. Recycled Materials:

None

6N. Local and Regional Input:

None

6O. What are the consequences of not doing this entire project?

Deterioration of water quality in the Machado Lake watershed would continue, and Caltrans would be considered non-compliant by LARWQCB.

Implementation of this project is a mandated requirement. Enforcement with possible penalties could be enacted. If it were then necessary to implement the project on an accelerated schedule, overall project cost could increase substantially.

6P. List all alternatives studied, and reasons not recommended, etc:

No other "Build" alternative was studied.

7. TRANSPORTATION MANAGEMENT PLAN (TMP)

The need for lane closures, detours, and traffic control should be minimal, since most of the work areas will be off the traveled way. A TMP Data Sheet and Cost Estimate were approved on March 24, 2009. See Attachment I.

8. ENVIRONMENTAL DETERMINATION/DOCUMENT

A Categorical Exemption/Categorical Exclusion (CE) determination form for this project was approved on June 1, 2009. See Attachment G, Environmental Clearance.

9. FUNDING AND SCHEDULING

This project will be submitted for programming in the 2014 State Highway Operation and Protection Program (SHOPP) and will be funded from the Storm Water Mitigation program, 20.XX.201.335.

9A. Cost Estimate

See Attachment D.

9B. Project Support:

	PROJECT SUPPORT COMPONENTS								
	PA & ED 0 Phase		Design 1 Phase		Right of way 2 Phase		Construction 3 Phase		Total
	Dist	DES	Dist	DES	Dist	DES	Dist	DES	
Estimated PYs									0
Estimated PS \$s (\$1000s)			1150		130		1280		2560
Estimated PYE \$s (\$1000s)									0
Total \$s	0	0	1150	0	130	0	1280	0	2560

9C. Project Schedule:

Milestones	Delivery Date (Month, Day, Year)
Project PS&E	02/01/2011
Right of way Certification	09/07/2010
Ready to List	12/31/2013
Approve Contract	03/03/2014
Contract Acceptance	12/18/2014
End Project	03/19/2015

10. FEDERAL COORDINATION

No federal-aid funding is anticipated and no FHWA action is required for this project.

11. DISTRICT CONTACTS

Name	Title/Office	Phone
District 7, California Department of Transportation		
Elaheh Yadegar	Supervising Transportation Engineer, Office of Project and Special Studies	(213) 897-9635
Min Wun	Senior Transportation Engineer, Office of Project and Special Studies	(213) 897-9565
Ojas Sheth	Project Manager, Division of Program and Project Management	(213) 897-8595
James Vu	Project Engineer, Office of Project and Special Studies	(213) 897-0116
Garrett Damrath	Senior Environmental Planner, Division of Environmental Planning	(213) 897-9016
Albert Yu	Senior Transportation Engineer, Office of District Traffic Manger	(213) 897-0285
Dan Murdoch	Senior Right of Way Agent, Office of Right of Way Planning & Management	(213) 897-1816
Headquarters, California Department of Transportation		
Jagjiwan S Grewal	HQ SHOPP 335 Program Advisor	(916) 653-2115

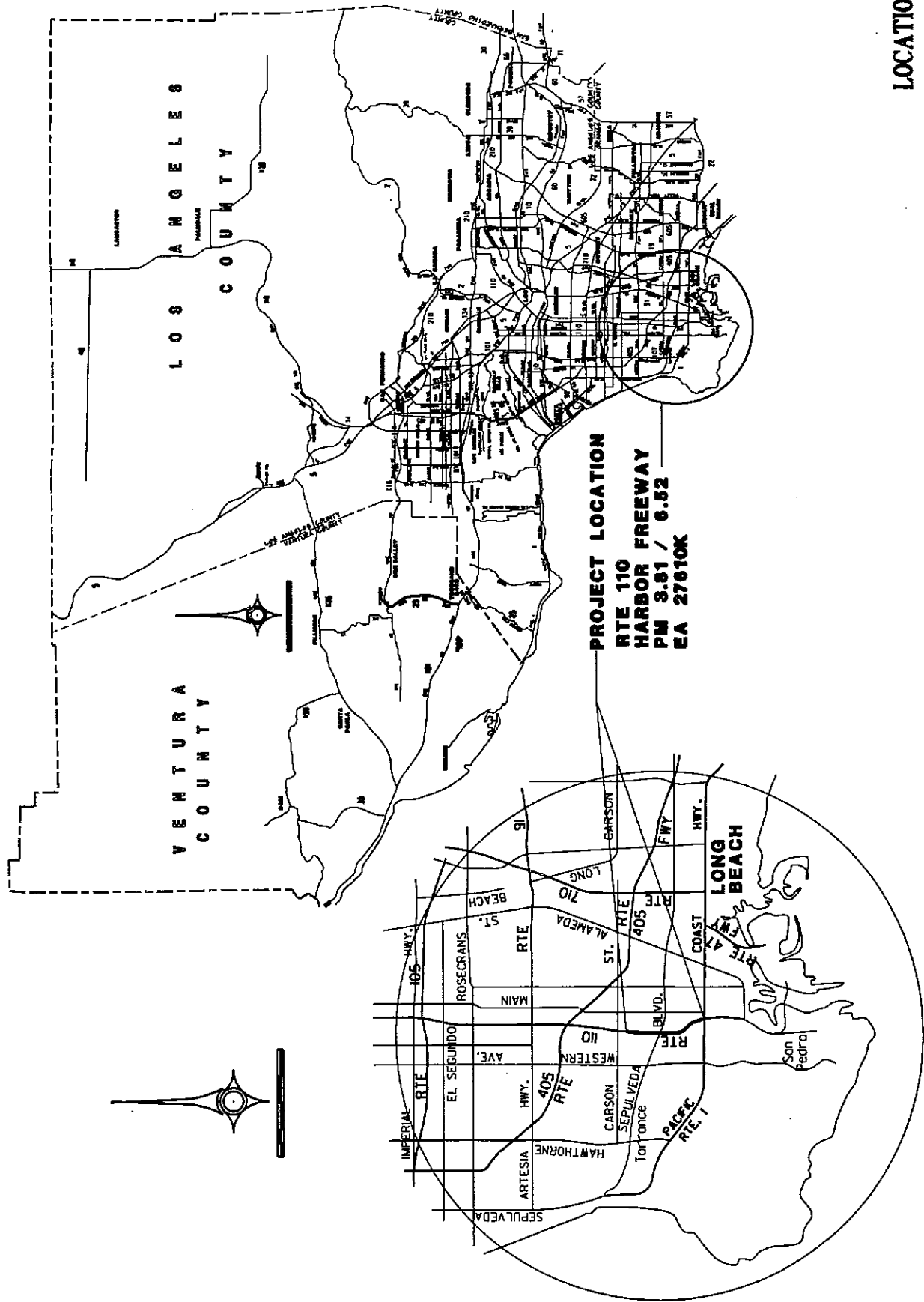
12. PROJECT REVIEWS

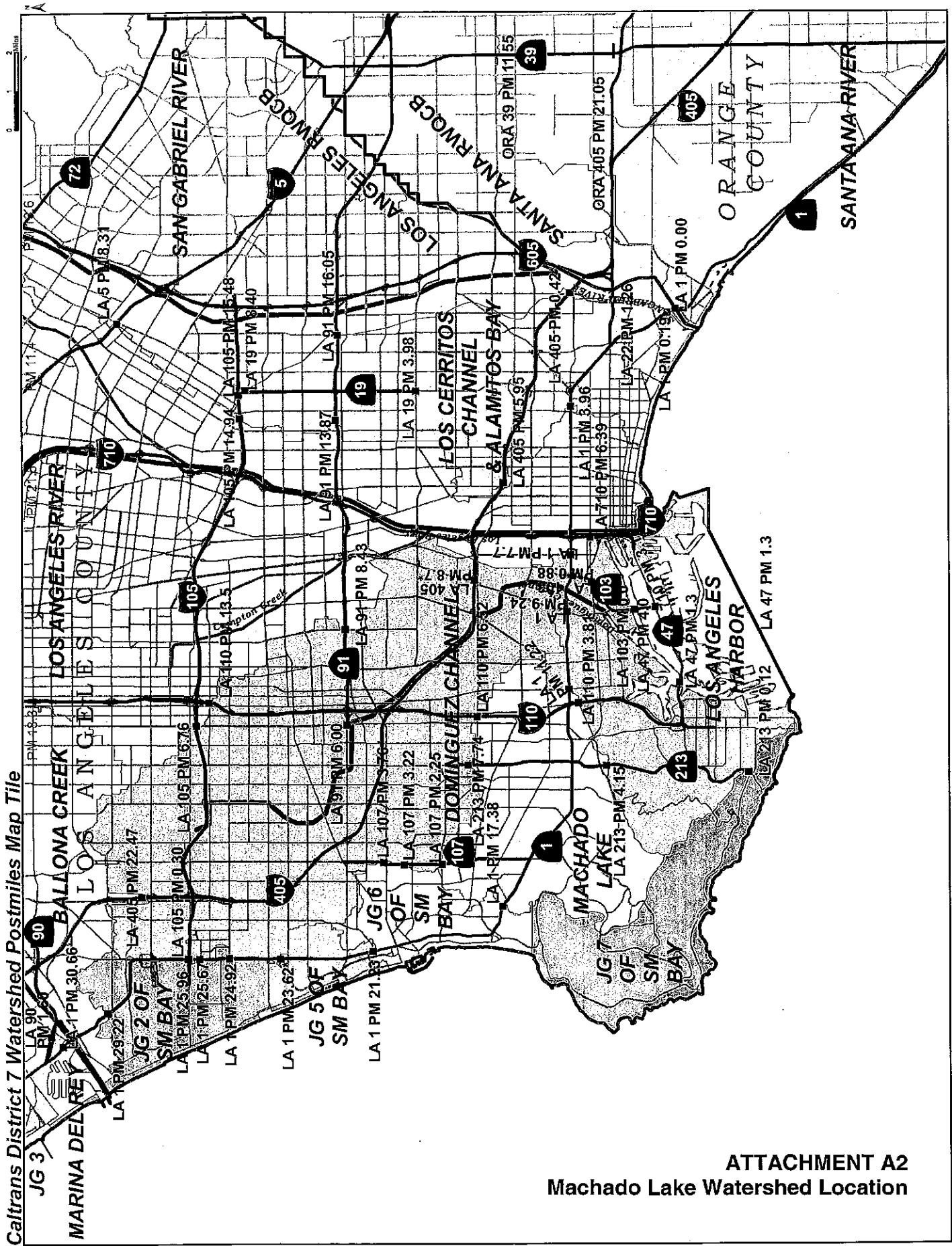
Reviewed by:		Date:
Field Review	OPSS Team	8/06/2008 – 2/06/2009
SHOPP 335 Program Advisor	Robert Wu	5/21/2009
Right of Way Project Coordinator	John Njoroge	4/21/2009
Office of Maintenance SWDR	Roger Castillo	4/8/2009 – 4/9/2009
Office of Maintenance Support	Richard Gordon	4/8/2009
Quality Review	Quality Review Team	5/20/2009
Storm Water Mitigation Program Advisor	Jai Paul Thakur	5/21/2009
HQ SHOPP 335 Program Advisor	Jagjiwan S Grewal	03/26/2009

13. ATTACHMENTS


- A. **Location Maps**
 - A1: Project Location
 - A2: Machado Lake Watershed Location
 - B. **Aerial Layout**
 - C. **Outfall Data**
 - C1: Outfall Database
 - C2: Treatment BMP Recommendation
 - D. Cost Estimate
 - E. Schedule
 - F. Schematic Diagrams and Photos of Treatment BMPs
 - G. Categorical Exemption/Categorical Exclusion (CE/CE) Determination
 - H. Right of Way Data Sheet
 - I. Transportation Management Plan (TMP)
 - I1: TMP Data Sheet
 - I2: Preliminary Chart
 - J. Storm Water Data Report
 - K. Performance Indicators
-

ATTACHMENT A
Location Map






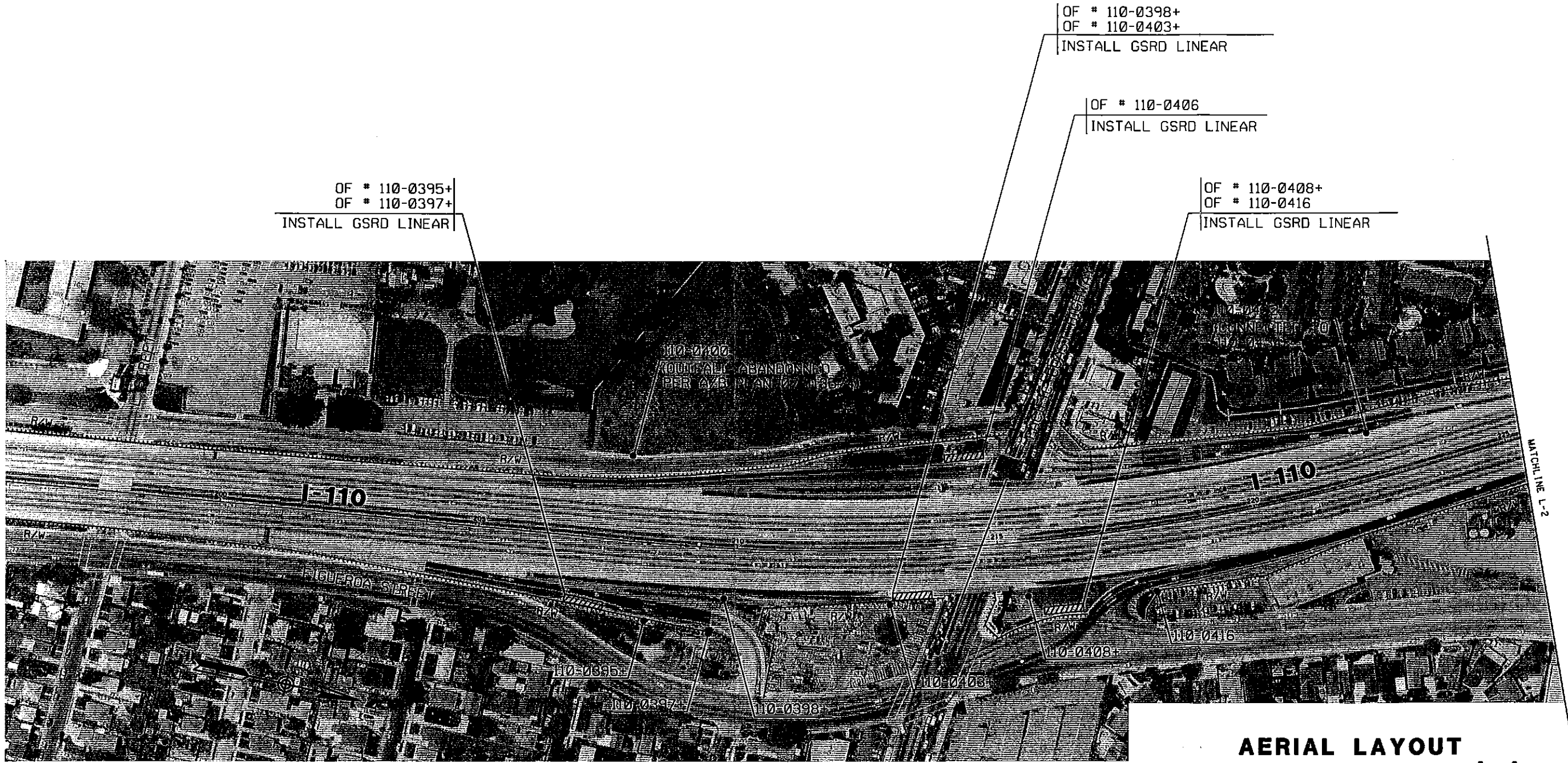
ATTACHMENT B
Aerial Layout

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION 	SUPERVISING ENGINEER		CALCULATED- DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE	
PLANS APPROVAL DATE	

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AERIAL LAYOUT
L-1

NO SCALE

	STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SUPERVISING ENGINEER		CALCULATED-DESIGNED BY	REVISOR	BY	DATE
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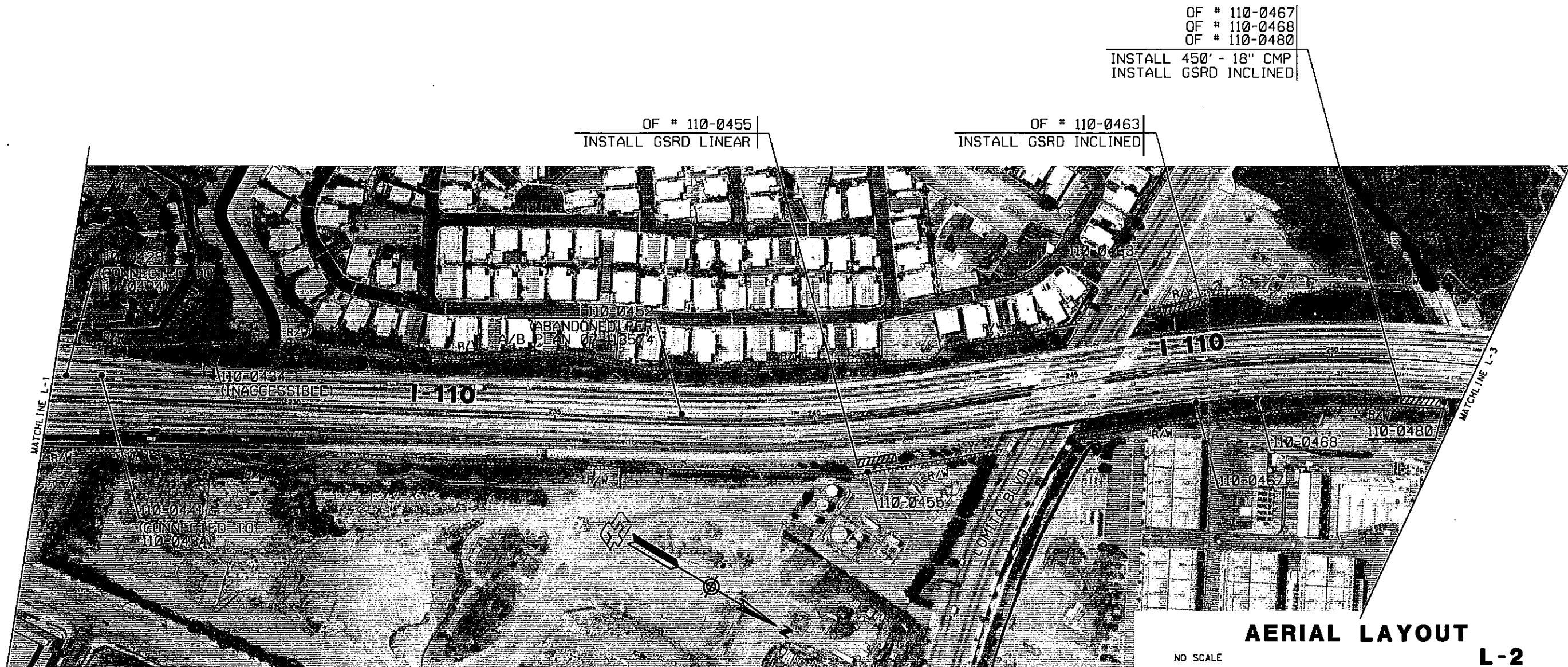
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS


REGISTERED CIVIL ENGINEER DATE _____


PLANS APPROVAL DATE _____

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REGISTERED PROFESSIONAL ENGINEER
 No. _____
 Exp. _____
 CIVIL
 STATE OF CALIFORNIA



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SUPERVISING ENGINEER	CALCULATED- DESIGNED BY	REVISOR	DATE
		CHECKED BY		

OF # 110-0486
OF # 110-0491
OF # 110-0500
INSTALL 500' - 18" CMP
INSTALL GSRD INCLINED

OF # 110-0506
INSTALL GSRD INCLINED



AERIAL LAYOUT
L-3

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION Caltrans	SUPERVISING ENGINEER	CALCULATED- DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED

DT&#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE _____

PLANS APPROVAL DATE _____

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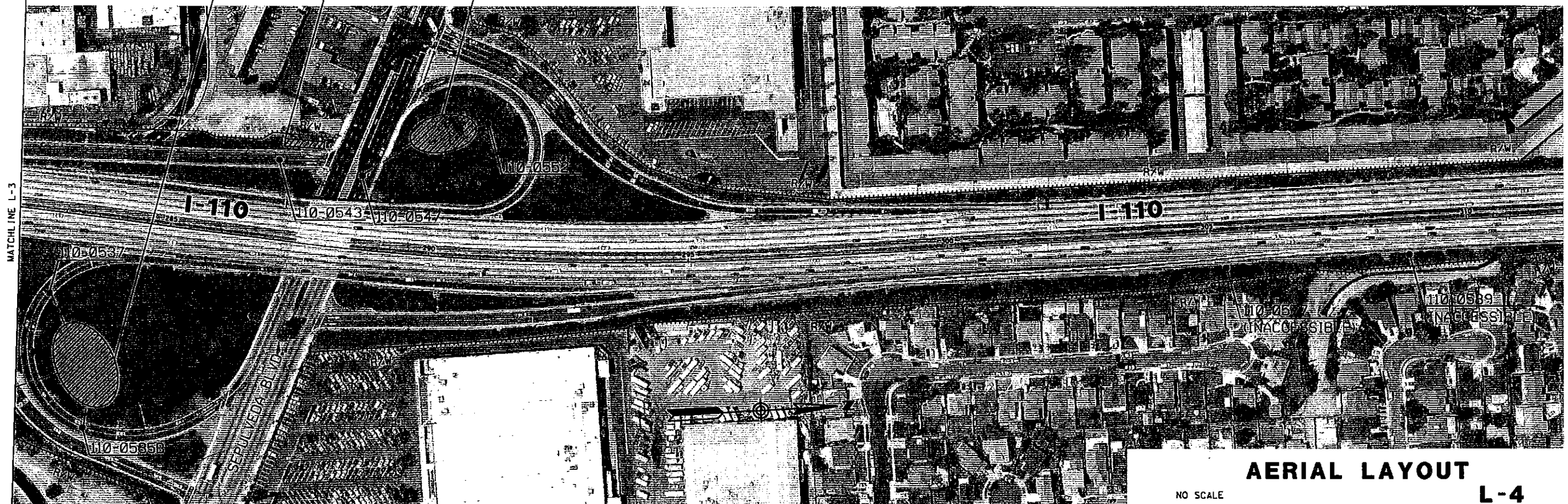
REGISTERED PROFESSIONAL ENGINEER
 No. _____
 Eߝ No. _____
 CIVIL
 STATE OF CALIFORNIA

OF # 110-0535A
OF # 110-0537
OF # 110-0535B
OF # 110-0536A

INSTALL CMP/RCP
CONSTRUCT DETENTION BASIN

OF # 110-0543
INSTALL GSRD LINEAR

OF # 110-0552
OF # 110-0547
CONSTRUCT DETENTION BASIN



AERIAL LAYOUT

L-4

NO SCALE

ATTACHMENT C
Outfall Data

June

Attachment C1: Outfall Database

Outfall Id	Direction	Cross Street	City	OF Type	OF Size	SMTYPE	Drain area (acre)	Comments
110-0400	SB	Figuroa Place	LA	RCP	36	Concrete-100%	7.89	Final inlet taken as OF Loc
110-0406	SB	Figuroa Place	LA	RCB	60X48	Concrete-100%	0.75	
110-0416	NB	Pacific Coast Hwy	LA	RCP	18	Concrete-100%	1.3	Final inlet taken as OF Loc
110-0422	SB	N of PCH	LA	RCB	24	Concrete-100%	1.41	Final inlet taken as OF Loc
110-0429	SB	N of PCH	LA	RCP	24	Concrete-100%	1.09	Final inlet taken as OF Loc
110-0434	SB	Pacific Coast Hwy	LA	RCB	120X120	Concrete-100%	1.89	Final inlet taken as OF Loc
110-0441	SB	S.of Lomita Blvd	LA	RCP	24	Concrete-100%	1.92	Final inlet taken as OF Loc
110-0452	SB	S.of Lomita Blvd	LA	RCP	24	Concrete-100%	1.03	Final inlet taken as OF Loc
110-0455	SB	Lomita Blvd	LA	RCP	33	Conc90%, Nat Veg 10%	1.21	Final inlet taken as OF Loc
110-0463	SB	Lomita Blvd	LA	CMP	18	Concrete-100%	1.32	
110-0467	NB	Lomita Blvd	Carson	CMP	18	Concrete-100%	0.33	
110-0468	NB	Lomita Blvd	Carson	CMP	18	Concrete-100%	0.63	
110-0480	NB	N.of Lomita Blvd	Carson	CMP	18	Concrete-100%	1.19	
110-0486	NB	N.of Lomita Blvd	Carson	CMP	18	Concrete-100%	0.36	Final inlet taken as OF Loc
110-0491	NB	N.of Lomita Blvd	Carson	CMP	18	Concrete-100%	0.47	Final inlet taken as OF Loc
110-0500	NB	N.of Lomita Blvd	Carson	RCP	45	Concrete-100%	1.15	
110-0506	NB	Lomita Blvd	Carson	RCP	30	Concrete-100%	1	
110-0535A	NB	Spruce Lake Drive	Carson	RCB	120X96	Concrete-100%	4.17	
110-0535B	NB	Sepulveda Blvd	Carson	RCP	24	Nat veg-90%, Asp-10%	3.27	
110-0536A	NB	Sepulveda Blvd	Carson	RCP	24	Asphalt-100%	0.38	
110-0537	NB	Sepulveda Blvd	Carson	RCP	24	Concrete-100%	0.43	Final inlet taken as OF Loc
110-0536B	NB	Sepulveda Blvd	Carson	CMP	18	Asp-60%, Nat veg-40%	1.74	
110-0543	SB	Sepulveda Blvd	Carson	RCP	24	Concrete-100%	1.75	Final inlet taken as OF Loc
110-0547	SB	Sepulveda Blvd	Carson	RCB	36X18	Asp-50%, Nat.veg-50%	1.59	
110-0552	SB	Sepulveda Blvd	Carson	RCP	24	Conc-80%, Asp-10%	4.21	Final inlet taken as OF Loc
110-0577	NB	234th St	Carson	RCP	36	Concrete-100%	2.94	
110-0589	NB	Orchard Ave.	Carson	RCB	144X108	Concrete-100%	1.74	

Receiving Water body: Dominguez Channel, Hydrologic area: 405.12

ATTACHMENT C1
Outfall Database

Attachment C2: Treatment BMP Recommendation

Outfall #	Outfall Id	Direction	Cross Street	Drain area (acre)	Pollutants	Treat area (acre)	Field notes	WQV (cft)	Peak Flow (cft/s)	Recommendation	
										Yes/No	BMP Type
1	110-0400	SB	Figuroa Place	7.89			Abandoned	21,481	22.49	No	
2	110-0395+	NB	PCH	1.30	Litter	1.30	New per A/B 07-113574	3,539	3.71	Yes	GSRD Linear (combined 110-0395+,-0397+)
3	110-0397+	NB	PCH	0.30	Litter	0.30	New per A/B 07-113574	817	0.86	Yes	
4	110-0398+	NB	PCH	0.70	Litter	0.70	New per A/B 07-113574	1,906	2.00	Yes	GSRD Linear (combined 110-0398+,-0403+)
5	110-0403+	NB	PCH	0.70	Litter	0.70	New per A/B 07-113574	1,906	2.00	Yes	
6	110-0406	SB	Figuroa Place	0.75	Litter	0.75	Potential utility conflict	2,042	2.14	Yes	GSRD Linear
7	110-0416	NB	PCH	1.30	Litter	1.30	To be combined w/ 408+	3,539	3.71	Yes	GSRD Linear (combined 110-0416,-0408+)
8	110-0408+	NB	PCH	0.90	Litter	0.90	New per A/B 07-113574	2,450	2.57	Yes	
9	110-0422	SB	N of PCH	1.41			Final outfall 110-0434	3,839	4.02	No	
10	110-0429	SB	N of PCH	1.09			Final outfall 110-0434	2,968	3.11	No	
11	110-0434	SB	PCH	1.89			Soundwall, inaccessible	5,146	5.39	No	
12	110-0441	SB	Lomita Blvd	1.92			Final outfall 110-0434	5,227	5.47	No	
13	110-0452	SB	Lomita Blvd	1.03			Abandoned	2,804	2.94	No	
14	110-0455	SB	Lomita Blvd	1.21	Litter	1.21	Clearing & grubbing	3,294	3.45	Yes	GSRD linear
15	110-0463	SB	Lomita Blvd	1.32	Litter	1.32	To install fence & gate	3,594	3.76	Yes	GSRD inclined
16	110-0467	NB	Lomita Blvd	0.33	Litter	0.33	Homeless encampment	898	0.94	Yes	GSRD Inclined (combined 110-0467,-0468,-0480)
17	110-0468	NB	Lomita Blvd	0.63	Litter	0.63	Tip slope, narrow shoulder	1,715	1.80	Yes	
18	110-0480	NB	Lomita Blvd	1.19	Litter	1.19	Tip slope, narrow shoulder	3,240	3.39	Yes	GSRD Inclined (combined 110-0486,-0491,-0500)
19	110-0486	NB	Lomita Blvd	0.36	Litter	0.36	Tip slope, narrow shoulder	980	1.03	Yes	
20	110-0491	NB	Lomita Blvd	0.47	Litter	0.47	Tip slope, narrow shoulder	1,280	1.34	Yes	
21	110-0500	NB	Lomita Blvd	1.15	Litter	1.15	Tip slope, narrow shoulder	3,131	3.28	Yes	
22	110-0506	NB	Lomita Blvd	1.00	Litter	1.00	See as built	2,723	2.85	Yes	GSRD Inclined
23	110-0535A	NB	Spruce Lake Dr	4.17	All(9)	37.53	Narrow shoulder	11,353	11.88	Yes	Detention Basin (combine 110-0535A,-0535B,-0536A,-0537)
24	110-0535B	NB	Sepulveda Blvd	3.27	All(9)	29.43	Loop ramp	8,903	9.32	Yes	
25	110-0536A	NB	Sepulveda Blvd	0.38	All(9)	3.42	Loop ramp	1,035	1.08	Yes	
26	110-0537	NB	Sepulveda Blvd	0.43	All(9)	3.87	Loop ramp	1,171	1.23	Yes	
27	110-0536B	NB	Sepulveda Blvd	1.74			Unidentified	4,737	4.96	No	
28	110-0543	SB	Sepulveda Blvd	1.75	Litter	1.75	Existing concrete ditch	4,764	4.99	Yes	GSRD linear
29	110-0547	SB	Sepulveda Blvd	1.59	All(9)	14.31	Loop ramp	4,329	4.53	Yes	Detention Basin (combine 110-0547,-0552)
30	110-0552	SB	Sepulveda Blvd	4.21	All(9)	37.89	Loop ramp	11,462	12.00	Yes	
31	110-0577	NB	234th St	2.94			Soundwall, inaccessible	8,004	8.38	No	
32	110-0589	NB	Orchard Ave.	1.74			Soundwall, inaccessible	4,737	4.96	No	
Total						142					

+: Additional outfall not listed in the Outfall Database

ATTACHMENT C2

Treatment BMP Recommendation

ATTACHMENT D
Cost Estimate

**PROJECT SCOPE SUMMARY REPORT
COST ESTIMATE**

07-LA-110
PM 3.81 / 6.52
EA: 27610K
(20.XX.201.335)

Limits: Along Route 110, between Pacific Coast Highway and 223rd Street, PM 3.81 to 6.52 in LA County.

Proposed Improvement (Scope): Implementation of Treatment BMPs

Alternate: _____

SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	\$	<u>9,500,000</u>
TOTAL STRUCTURE ITEMS	\$	<u>0</u>
SUBTOTAL CONSTRUCTION COSTS	\$	<u>9,500,000</u>
TOTAL RIGHT OF WAY ITEMS	\$	<u>0</u>
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$	<u>9,500,000</u>
USE	\$	<u>9,500,000</u>

**Reviewed by
Program Manager**

Signature



Phone No.

7-0126

Date

6/25/09

**Approved by
Project Manager**

Signature



Phone No.

7-8545

Date

6/25/09

ATTACHMENT D

Sheet 1 of 6

PROJECT SCOPE SUMMARY REPORT

07-LA-110
PM 3.81 / 6.52
EA: 27610K
(20.XX.201.335)

I. ROADWAY ITEMS

<u>Section 1 Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Unit Cost</u>	<u>Section Cost</u>
Roadway Excavation	210,000	FT ³	\$2	\$420,000	
Structure Backfill	15,000	FT ³	\$3	\$45,000	
Sand Backfill					
Imported borrow					
Remove PCC-Mainline					
Remove AC-Shoulder					
Clearing & Grubbing	1	LS	\$50,000	\$50,000	
Develop Water Supply					
<u>Subtotal Earthwork:</u>					\$515,000

Section 2 Structural Section

Pavement

Asphalt Concrete (6 in for access road)	326	TONN	\$100	\$32,600
Lean Concrete Base				
Cement-Treated Base				
Aggregate Base				
Treated Permeable Base				
Aggregate Subbase				
Pavement Reinforcing Fabric				
Edge Drains				
Maintenance Access				
Staircase for Access				

Total Structural Items: **\$32,600**

Section 3 Drainage

Detention Basin	2	EA	\$200,000	\$400,000
Media Filter				
Gross Solid Removal Devices (GSRDs)				
Linear and Inclined (Devices only)	10	EA	\$250,000	\$2,500,000
Bioswales and Biostrips				
Drainage Modifications	29	EA	\$30,000	\$870,000
CMP/RCP	1,250	FT	\$200	\$250,000

Total Drainage: **\$4,020,000**

PROJECT SCOPE SUMMARY REPORT

07-LA-110
PM 3.81 / 6.52
EA: 27610K
(20.XX.201.335)

<u>Section 4 Specialty Items</u>				
	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Unit Cost</u>
Retaining Walls	8,100	FT ³	\$25	\$202,500
Noise Barriers				
Barriers and Guardrails	200	FT	\$60	\$12,000
Equipment/Animal Passes				
Restoring Highway Planting	1	LS	\$180,000	\$180,000
Plant establishment	1	LS	\$35,000	\$35,000
Restoring Irrigation System	1	LS	\$270,000	\$270,000
Relocate Private Irrigation Facilities				
Erosion Control	1	LS	\$50,000	\$50,000
Slope Protection	1	LS	\$50,000	\$50,000
Design Pollution Prevention Plan	1	LS	\$50,000	\$50,000
Hazardous Waste Mitigation Work	1	LS	\$200,000	\$200,000
Environmental Mitigation	1	LS	\$50,000	\$50,000
Chain Link Fence and Gates	1	LS	\$20,000	\$20,000
SWPPP Plan Preparation and WPC	1	LS	\$100,000	\$100,000
Resident Engineer Office	1	LS	\$122,500	\$122,500
Time -related overhead	1	LS	\$225,000	\$225,000
<u>Total Specialty Items:</u>				<u>\$1,567,000</u>
<u>Section 5 Traffic Items</u>				
ITS (Install communication conduits)				
Traffic Delineations Items				
Traffic Signals				
Overhead Sign (Retro-Reflective)				
Ground Mounted Signs				
Traffic Control Systems	1	LS	\$200,000	\$200,000
Transportation Management Plan	1	LS	\$15,000	\$15,000
Construction Area Signs	1	LS	\$8,000	\$8,000
Temp Crash Cushions				
Temp Railing Type K	1	LS	\$20,000	\$20,000
<u>Total Traffic Items:</u>				<u>\$243,000</u>
SUBTOTAL SECTIONS 1-5				<u>\$6,377,600</u>

PROJECT SCOPE SUMMARY REPORT

07-LA-110
PM 3.81 / 6.52
EA: 27610K
(20.XX.201.335)

				<u>Unit Cost</u>	<u>Section Cost</u>
<u>Section 6 Minor Items</u>					
Subtotal Sections 1-5	<u>6,377,600</u>	X	<u>10%</u>	<u>\$637,760</u>	
				<u>Total Minor Items</u>	<u>\$637,760</u>
<u>Section 7 Roadway Mobilization</u>					
Subtotal Sections 1-5	<u>6,377,600</u>				
Minor Items	<u>637,760</u>				
Sum	<u>7,015,360</u>	X	<u>10%</u>	<u>\$701,536</u>	
				<u>Total Roadway Mobilization</u>	<u>\$701,536</u>
<u>Section 8 Roadway Additions</u>					
Supplemental					
Subtotal Sections 1-5	<u>6,377,600</u>				
Minor Items	<u>637,760</u>				
Sum	<u>7,015,360</u>	X	<u>5%</u>	<u>\$350,768</u>	
Contingencies					
Subtotal Sections 1-5	<u>6,377,600</u>				
Minor Items	<u>637,760</u>				
Sum	<u>7,015,360</u>	X	<u>20%</u>	<u>\$1,403,072</u>	
				<u>Total Roadway Additions:</u>	<u>\$1,753,840</u>
				<u>TOTAL ROADWAY ITEMS</u>	<u>\$9,470,736</u>
				(Total of sections 1-8)	
				<u>USE</u>	<u>\$9,500,000</u>

Estimate Prepared By Mai K Nguyen Phone No: (213) 897 5430 Date 4/7/2009
(Print Name)

Estimate Checked By James Vu Phone No: (213) 897 0116 Date 4/7/2009
(Print Name)

PROJECT SCOPE SUMMARY REPORT

07-LA-110
PM 3.81 / 6.52
EA: 27610K
(20.XX.201.335)

II-STRUCTURES ITEMS

Bridge Structure Items

	N°1	N°2	N°3	N°4
Bridge Name				
Structure Type				
Width (out to out)-(m)				
Span lengths (m)				
Total Area (m2)				
Footings Type (Pile/Spread)				
Cost per square meter				
(include 10% mobilization and 20% contingency)				
Wall length on Bridge				
Unit price of wall (\$/m)				
Cost of the Wall				
Total Cost for Structure				\$0

SUBTOTAL STRUCTURAL ITEMS \$0

Approach and Departure Slabs

Approach/Departure Slabs				
(include 10% Mobilization and and 20% contingency)				

SUBTOTAL STRUCTURAL ITEMS

Railroad Related Costs

SUBTOTAL RAILROAD ITEMS

TOTAL STRUCTURE ITEMS

USE \$0

COMMENTS

Estimate Prepared By Mai K Nguyen
(Print Name)

Phone No: (213) 897 5430

Date 4/7/2009

(If appropriate, attach additional pages and backup)

ATTACHMENT D

Sheet 5 of 6

PROJECT SCOPE SUMMARY REPORT

07-LA-110
PM 3.81 / 6.52
EA: 27610K
(20.XX.201.335)

III. RIGHT OF WAY

Escalated
Values

- A. Acquisition, including excess lands
and damages to remainder(s)(Temporary Const.Easement)
- B. Utility Relocation (State share)
- C. RAP
- D. Clearance/Demolition
- E. Title and Escrow Fees

TOTAL RIGHT OF WAY ITEMS \$0

Anticipated Date of Right of Way Certification
(Date to which Values are Escalated)

F. Construction Contract Work

Right of Way Branch Cost Estimate for Work*

* This dollar amount is to be inclined in the Roadway and/or
Structures Items of Work, as appropriate. Do not include in Right
Right of Way Items.

COMMENTS:

Estimate Prepared By: Mai K. Nguyen Phone No : (213) 897 5430 Date 4/7/2009
(Print Name)

(If appropriate, attach additional pages and backup including Right of Way Data Sheet.)

ATTACHMENT E
Schedule

WBS Code	Activity Description	% Comp	Orig Dur	Rem Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float
0.100	PROJ MGMT	10	2,231*	1,480*	03/16/06A	03/19/15	03/16/06A	03/19/15	0
0.100.05	PROJ MGMT - PID CMPNT	20	859*	108*	03/16/06A	09/01/09	03/16/06A	09/01/09	0
0.100.10	PROJ MGMT - PA&ED CMPNT	0	214*	214*	09/02/09	07/15/10	10/14/09	07/15/10	0
0.100.15	PROJ MGMT - PS&E CMPNT	0	878*	878*	07/16/10	01/30/14	02/21/13	01/30/14	0
0.100.20	PROJ MGMT - CONST CMPNT	0	260*	260*	03/04/14	03/19/15	03/04/14	03/19/15	0
0.100.25	PROJ MGMT - R/W CMPNT	0	1,158*	1,158*	07/16/10	03/19/15	02/21/13	03/19/15	0
1.150	DEVELOP PID	20	751	108	03/16/06A	09/01/09	03/16/06A	09/01/09	0
2.160	PERF PREL ENGRG STUDIES &	0	100*	100*	09/02/09	01/29/10	10/14/09	03/12/10	28
2.160.05	UPDD PROJ INFO	0	40	40	09/02/09	10/29/09	10/14/09	12/11/09	28
2.160.10	ENGRG STUDIES	0	80	80	09/17/09	01/14/10	10/28/09	02/26/10	28
2.160.15	DRAFT PR	0	50	50	11/16/09	01/29/10	12/29/09	03/12/10	28
2.160.20	ENGRG & LAND NET SRVYS	0	75	75	09/02/09	12/22/09	10/14/09	02/03/10	28
2.160.30	ESR	0	1	1	09/02/09	09/02/09	03/12/10	03/12/10	127
2.160.40	NEPA DLGN	0	1	1	09/02/09	09/02/09	12/11/09	12/11/09	67
2.165	PERF ENV STUDIES & PREP	0	80*	80*	09/02/09	12/30/09	11/12/09	03/12/10	48
2.165.05	ENV SCPPG OF ALTS IFS IN PID	0	20	20	09/02/09	09/30/09	11/12/09	12/11/09	48
2.165.10	GENL ENV STUDIES	0	20	20	09/02/09	09/30/09	11/12/09	12/11/09	48
2.165.15	BIOL STUDIES	0	20	20	09/02/09	09/30/09	11/12/09	12/11/09	48
2.165.20	CLTRL RSRC STUDIES	0	20	20	09/02/09	09/30/09	11/12/09	12/11/09	48
2.165.25	DED	0	80	80	09/02/09	12/30/09	11/12/09	03/12/10	48
2.165.30	NEPA DLGN	0	1	1	09/02/09	09/02/09	12/11/09	12/11/09	67
2.175	CIRC DED & SLT PRFD PROJ	0	60*	60*	02/01/10	04/28/10	03/15/10	06/08/10	28
2.175.05	DED CIRC	0	54	54	02/01/10	04/20/10	03/15/10	05/28/10	28
2.175.10	PUB HRG	0	54	54	02/01/10	04/20/10	03/15/10	05/28/10	28
2.175.15	PUB CMNT RESPS & CRNC	0	24	24	02/01/10	03/08/10	04/27/10	05/28/10	58
2.175.20	PROJ PRFD ALT	0	6	6	04/21/10	04/28/10	06/01/10	06/08/10	28
2.180	PREP & APV PR & FED	0	26*	26*	04/29/10	06/04/10	06/09/10	07/15/10	28
2.180.05	FPR	0	10	10	04/29/10	05/12/10	06/09/10	06/22/10	28
2.180.10	FED	0	10	10	04/29/10	05/12/10	06/09/10	06/22/10	28
2.180.15	CMPLTD ENV DOC	0	16	16	05/13/10	06/04/10	06/23/10	07/15/10	28
3.185	BASE MAPS & PLAN SHEETS	0	35*	35*	07/16/10	09/02/10	02/21/13	04/11/13	643
3.185.05	UPDD PROJ INFO	0	5	5	07/16/10	07/22/10	02/21/13	02/27/13	643
3.185.10	SRVYS & PHTGR MPG FOR	0	30	30	07/16/10	08/26/10	02/28/13	04/11/13	648
3.185.15	PREL DSN	0	30	30	07/23/10	09/02/10	02/28/13	04/11/13	643
3.185.20	ENGRG RPTS	0	30	30	07/23/10	09/02/10	02/28/13	04/11/13	643
3.185.25	R/W RQMTS DTRMTN	0	6	6	07/23/10	07/30/10	04/04/13	04/11/13	667
3.185.30	STRUC SITE PLANS	0	1	1	05/13/10	05/13/10	02/27/13	02/27/13	691
4.195	R/W PROP MGMT & EXCS	0	1	1	09/07/10	09/07/10	03/19/15	03/19/15	1,121
4.200	UTIL RELOCN	0	1	1	09/07/10	09/07/10	03/19/15	03/19/15	1,121
2.205	PMTS AGRES & RAS DURING	0	20	20	02/01/10	03/02/10	08/06/13	09/03/13	872
4.220	PERF R/W ENGRG	0	1	1	09/03/10	09/03/10	12/13/13	12/13/13	811
4.225	OBV R/W INTST FOR PROJ R/W	0	1	1	09/07/10	09/07/10	12/16/13	12/16/13	811
3.230	PREP DRAFT PS&E	0	70	70	09/03/10	12/16/10	04/12/13	07/22/13	643
3.235	MIT ENV IMPTS & CLEAN UP	0	20	20	09/03/10	10/01/10	08/06/13	09/03/13	723
3.240	DRAFT STRUCS PS&E	0	1	1	09/03/10	09/03/10	07/22/13	07/22/13	712
4.245	POST R/W CERTN WRK	0	20	20	09/08/10	10/05/10	02/20/15	03/19/15	1,101
3.250	PREP FNL STRUCS PS&E	0	1	1	09/07/10	09/07/10	09/03/13	09/03/13	741
3.255	CIRC RVW & PREP FNL DIST	0	30	30	12/17/10	02/01/11	07/23/13	09/03/13	643
3.260	CONTR BID DOCS RTL	0	80	80	02/02/11	05/27/11	09/04/13	12/31/13	643
3.265	AWDD & APVD CONST CONTR	0	20	20	01/02/14	01/30/14	01/02/14	01/30/14	0
5.270	CE & GCA	0	200*	200*	03/04/14	12/18/14	03/04/14	12/18/14	0

Start Date 01/01/80
Finish Date 03/19/15
Data Date 04/01/09
Run Date 03/30/09 09:31

NEW1 - ZN00

Sheet 1 of 2

Caltrans District 7

Dynamic Workplan Model

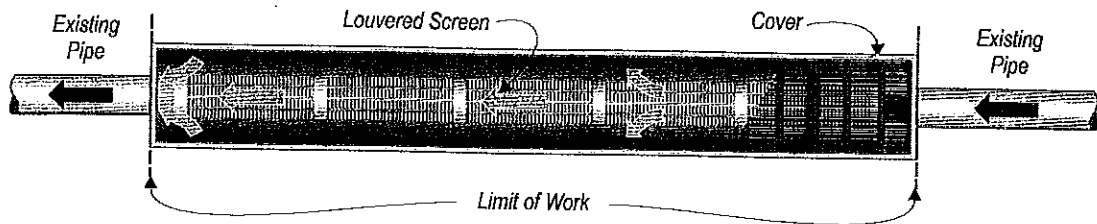
Classic Schedule Layout

EA # 27610
ATTACHMENT E
Schedule
Sheet 1 of 2

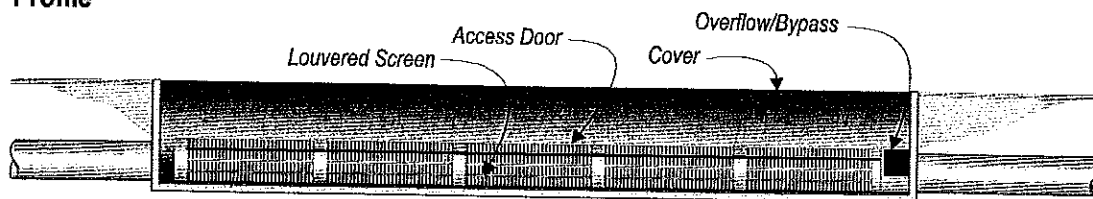
WBS Code	Activity Description	% Comp	Orig Dur	Rem Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float
5.270.10	CONST STAKING PCKG & CTRL	0	184	184	03/04/14	11/24/14	03/04/14	11/24/14	0
5.270.15	CONST STAKES	0	164	164	04/02/14	11/24/14	04/02/14	11/24/14	0
5.270.20	CE WRK	0	184	184	03/04/14	11/24/14	03/04/14	11/24/14	0
5.270.25	CONST CONTR ADMIN WRK	0	184	184	03/04/14	11/24/14	03/04/14	11/24/14	0
5.270.30	CONTR ITEM WRK INSPN	0	184	184	03/04/14	11/24/14	03/04/14	11/24/14	0
5.270.35	CONST MTL S&T	0	184	184	03/04/14	11/24/14	03/04/14	11/24/14	0
5.270.40	SAFETY & MTCE RVWS	0	10	10	11/25/14	12/10/14	11/25/14	12/10/14	0
5.270.45	RLF FROM MTCE PROCESS	0	1	1	12/11/14	12/11/14	12/11/14	12/11/14	0
5.270.55	FNL INSPN & ACPTC RCMDN	0	5	5	12/12/14	12/18/14	12/12/14	12/18/14	0
5.270.60	PLANT ESTABLISHMENT	0	80	80	08/22/14	12/18/14	08/22/14	12/18/14	0
5.270.65	TMP IMPLN DURING CONST	0	184	184	03/04/14	11/24/14	03/04/14	11/24/14	0
5.270.70	UPDD ECR	0	200	200	03/04/14	12/18/14	03/04/14	12/18/14	0
5.270.75	RSRC AGENCY PMT RNWL &	0	200	200	03/04/14	12/18/14	03/04/14	12/18/14	0
5.270.80	L-TRM ENV MITIGN/MNTG	0	40	40	03/04/14	04/29/14	10/21/14	12/18/14	160
5.275	CE & GCA OF STRUCS WRK	0	200	200	03/04/14	12/18/14	05/29/14	03/19/15	60
5.285	CCO ADMIN	0	260*	260*	03/04/14	03/19/15	03/04/14	03/19/15	0
5.290	RSLV CONTR CLAIMS	0	260*	260*	03/04/14	03/19/15	03/04/14	03/19/15	0
5.295	ACPT CONTR PREP FE & FR	0	60	60	12/19/14	03/19/15	12/19/14	03/19/15	0
4.300	PERF FNL R/W ENGRG ACTS	0	20	20	03/04/14	04/01/14	02/20/15	03/19/15	240
M000	ID NEED	100	0	0		01/08/07A		01/08/07A	
M010	APPROVE PID	0	0	0		09/01/09*		09/01/09*	0
M015	PROG PROJ	0	0	0		09/01/09		10/13/09	28
M020	BEGIN ENVIRO	0	0	0		09/01/09		11/10/09	48
M040	BEGIN PROJ	0	0	0		09/01/09		10/13/09	28
M060	CIRC DPR & DED	0	0	0		12/30/09		03/12/10	48
M100	APPROVE DPR	0	0	0		01/29/10		03/12/10	28
M160	APPROVE FED	0	0	0		04/28/10		06/08/10	28
M200	PA&ED	0	0	0		07/15/10*		07/15/10*	0
M221	BRIDGE SITE DATA ACCEPTED	0	0	0		03/30/09		12/13/13	1,169
M222	BEGIN BRIDGE	0	0	0		03/30/09		12/13/13	1,169
M224	R/W MAPS	0	0	0		09/02/10		12/12/13	811
M225	REGULAR R/W	0	0	0		09/03/10		12/13/13	811
M275	GENERAL PLANS	0	0	0		03/30/09		07/19/13	1,069
M300	CIRC PLANS IN DIST	0	0	0		12/16/10		07/22/13	643
M318	DESIGN SAFETY REVIEW	0	0	0		12/16/10		07/22/13	643
M328	CONSTRUCTABILITY REVIEW	0	0	0		12/16/10		07/22/13	643
M377	PS&E TO DOE	0	0	0		12/16/10		07/22/13	643
M378	DRAFT STRUC PS&E	0	0	0		09/03/10		07/22/13	712
M380	PROJ PS&E	0	0	0		02/01/11		09/03/13	643
M410	R/W CERT	0	0	0		09/07/10		12/16/13	811
M460	RTL	0	0	0		12/31/13*		12/31/13*	0
M480	HQ ADVERT	0	0	0		12/31/13		12/31/13	0
M495	AWARD	0	0	0		02/14/14		02/14/14	0
M500	APPROVE CONTRACT	0	0	0		03/03/14		03/03/14	0
M588	FINAL SAFETY REVIEW	0	0	0		03/30/09		12/18/14	1,420
M600	CONTRACT ACCEPT	0	0	0		12/18/14		12/18/14	0
M700	FINAL REPORT	0	0	0		03/19/15		03/19/15	0
M800	END PROJ	0	0	0		03/19/15		03/19/15	0

ATTACHMENT F
Schematic Diagrams and Photos of BMPs

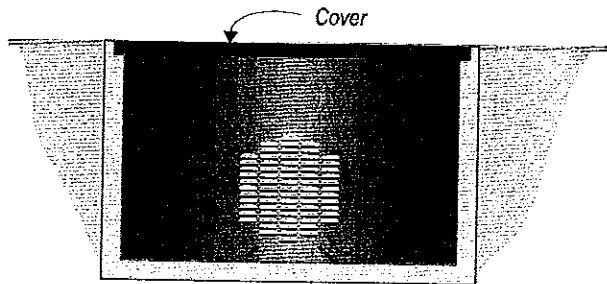
Plan View



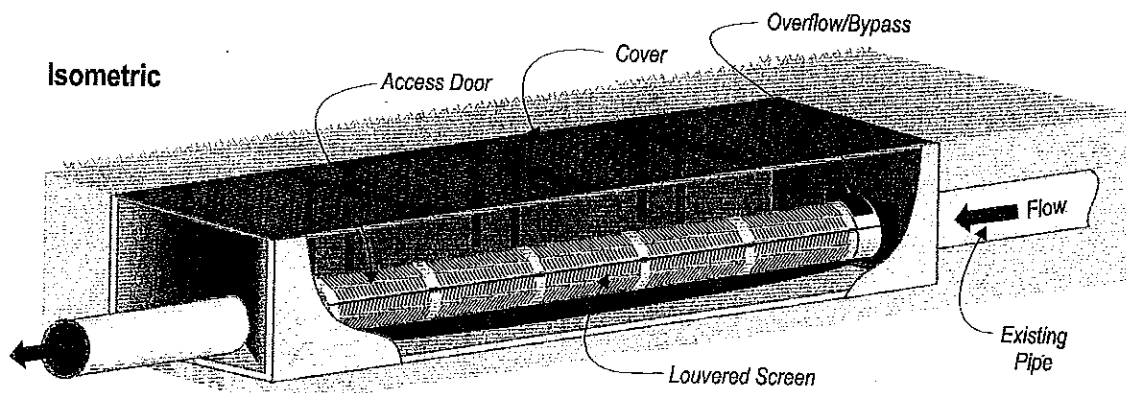
Profile



Section



Isometric

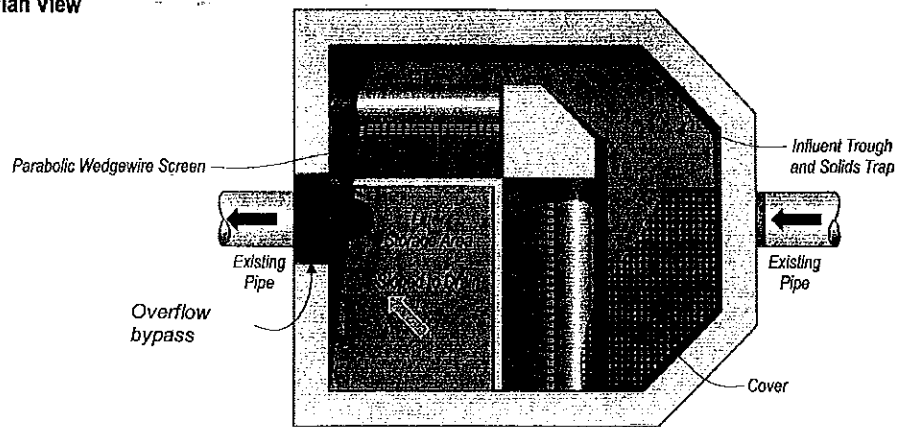


Gross Solid Removal Device-Linear Radial Device

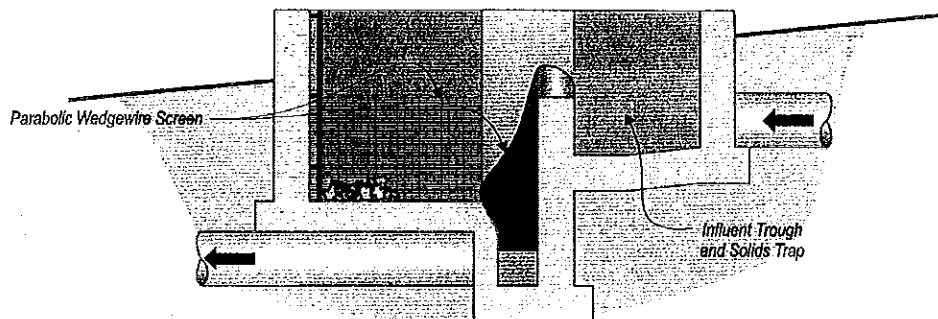
ATTACHMENT F

Sheet 1 of 4

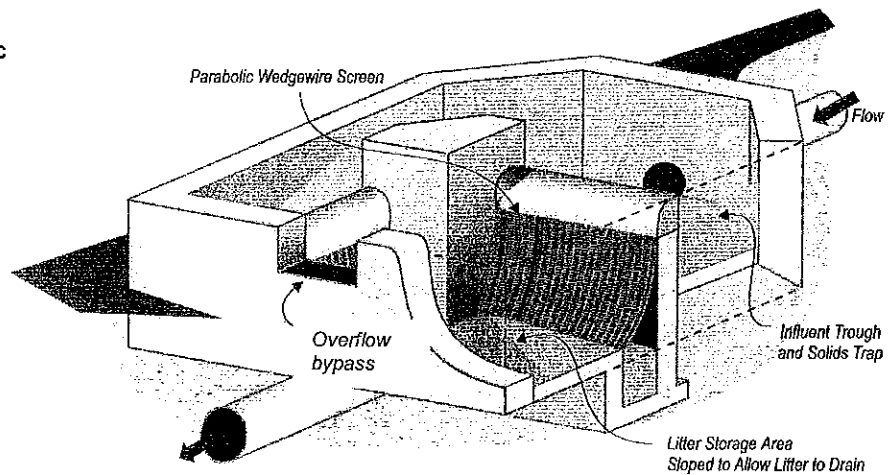
Plan View



Profile

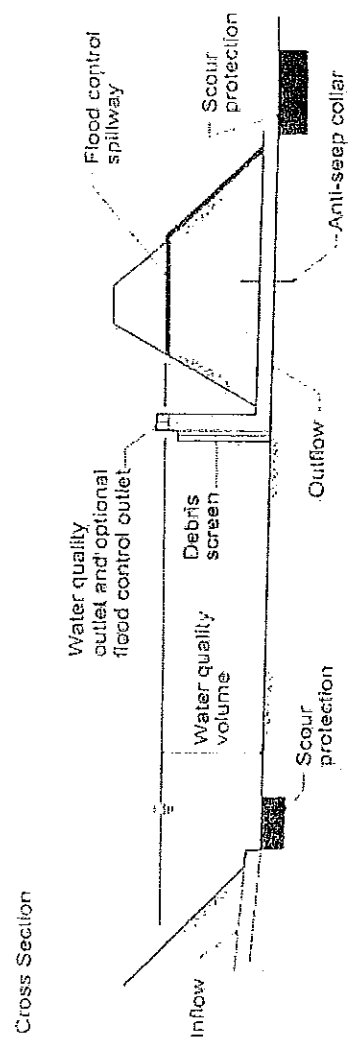
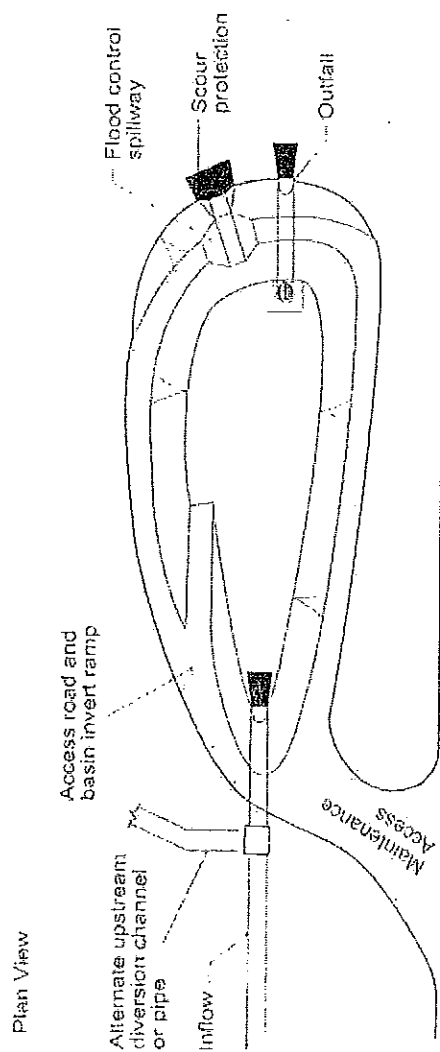


Isometric

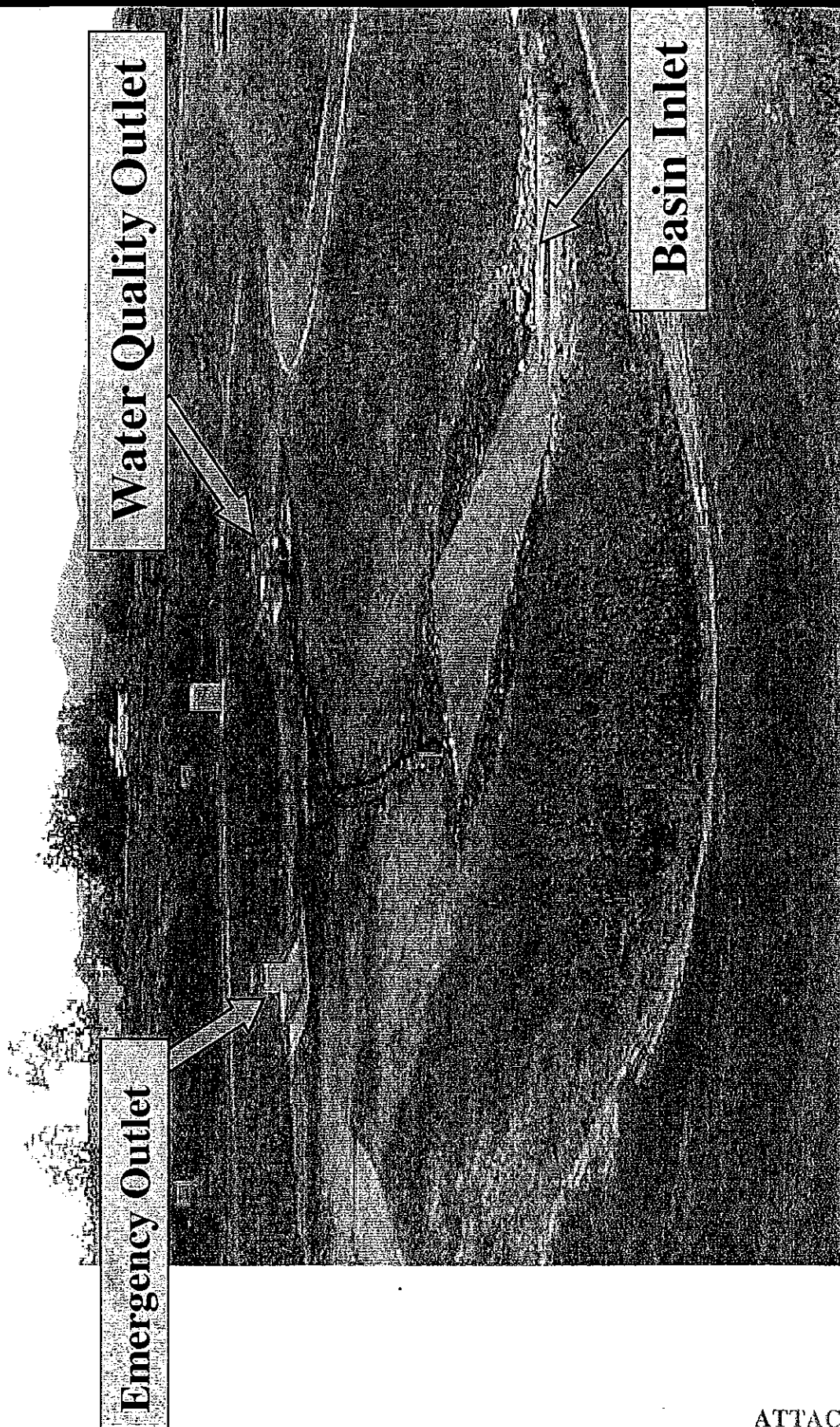


Gross Solid Removal Device-Inclined Screen Type

Detention Basins



Detention Basins



ATTACHMENT G
Environmental Clearance

CATEGORICAL EXEMPTION/ CATEGORICAL EXCLUSION DETERMINATION FORM

07-LA-110	3.81 / 6.52	27610K	200906001
Dist.-Co.-Rte. (or Local Agency)	P.M/P.M.	E.A. (State project)	Fed-Aid Proj No. (Local project)/ Proj. No.

PROJECT DESCRIPTION:

(Briefly describe project, purpose, location, limits, right-of-way requirements, and activities involved.)

Enter project description in this box. Use Continuation Sheet, if necessary

The project proposes to install Gross Solids Removal Devices (GSRD) at identified locations along I -110 in cities of Los Angeles, Carson and the County of Los Angeles. The purpose of the project is to comply with requirements of the re found in the Basin Plans. It seeks to attain water quality standard for trash in Machado Lake Watershed. Installing GSRD at outfalls along the freeway would greatly reduce trash coming from the freeway. All work will be done in State right-of-way. (See attached Continuation Sheet)

CEQA COMPLIANCE (for State Projects only)

Based on an examination of this proposal, supporting information, and the following statements (See 14 CCR 15300 et seq.):

- If this project falls within exempt class 3, 4, 5, 6 or 11, it does not impact an environmental resource of hazardous or critical concern where designated, precisely mapped and officially adopted pursuant to law.
- There will not be a significant cumulative effect by this project and successive projects of the same type in the same place, over time.
- There is not a reasonable possibility that the project will have a significant effect on the environment due to unusual circumstances.
- This project does not damage a scenic resource within an officially designated state scenic highway.
- This project is not located on a site included on any list compiled pursuant to Govt. Code § 65962.5 ("Cortese List").
- This project does not cause a substantial adverse change in the significance of a historical resource.

CALTRANS CEQA DETERMINATION

☐ Exempt by Statute. (PRC 21080(b); 14 CCR 15260 et seq.)

Based on an examination of this proposal, supporting information, and the above statements, the project is:

- ☒ Categorically Exempt. Class 1 (b). (PRC 21084; 14 CCR 15300 et seq.)
- ☐ Categorically Exempt. General Rule exemption. [This project does not fall within an exempt class, but it can be seen with certainty that there is no possibility that the activity may have a significant effect on the environment (CCR 15061(b)(3))]

Garrett Damrath

Print Name: Environmental Branch Chief



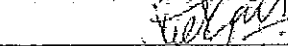
Signature

6/1/09

Date

Ojas Sheth

Print Name: Project Manager/DLA Engineer



Signature

6/1/09

Date

NEPA COMPLIANCE

In accordance with 23 CFR 771.117, and based on an examination of this proposal and supporting information, the State has determined that this project:

- does not individually or cumulatively have a significant impact on the environment as defined by NEPA and is excluded from the requirements to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS), and
- has considered unusual circumstances pursuant to 23 CFR 771.117(b) (<http://www.fhwa.dot.gov/hep/23cfr771.htm> - sec.771.117).

In non-attainment or maintenance areas for Federal air quality standards, the project is either exempt from all conformity requirements, or conformity analysis has been completed pursuant to 42 USC 7506(c) and 40 CFR 93.

CALTRANS NEPA DETERMINATION

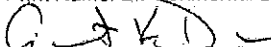
☒ Section 6004: The State has been assigned, and hereby certifies that it has carried out, the responsibility to make this determination pursuant to Chapter 3 of Title 23, United States Code, Section 326 and a Memorandum of Understanding (MOU) dated June 7, 2007, executed between the FHWA and the State. The State has determined that the project is a Categorical Exclusion under:

- 23 CFR 771.117(c): activity (c)(2)
- 23 CFR 771.117(d): activity (d)(L)
- Activity ___ listed in the MOU between FHWA and the State

☐ Section 6005: Based on an examination of this proposal and supporting information, the State has determined that the project is a CE under Section 6005 of 23 U.S.C. 327.

Garrett Damrath

Print Name: Environmental Branch Chief



Signature

6/1/09

Date

Ojas Sheth

Print Name: Project Manager/DLA Engineer



Signature

6/1/09

Date

Briefly list environmental commitments on continuation sheet. Reference additional information, as appropriate (e.g., air quality studies, documentation of conformity exemption, FHWA conformity determination if Section 6005 project; §106 commitments; §4(f); §7 results; Wetlands Finding; Floodplain Finding; additional studies; and design conditions). Revised September 15, 2008

CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM
Continuation Sheet

Installation Locations

Install GSRD Linear	Construct Detention Basin	Install GSRD Inclined
<ul style="list-style-type: none">• 110-0395+• 110-0397+• 110-0398+• 110-0403+• 110-0406• 110-0408• 110-0416• 110-0455• 110-0543	<ul style="list-style-type: none">• 110-0537• 110-0535B• 110-0536A• 110-0552• 110-0547	<ul style="list-style-type: none">• 110-0463• 110-0467• 110-0468• 110-0480• 110-0486• 110-0491• 110-0500• 110-0506• 110-0535A

Biological Resources

The project impacts are minimal to biological resources due to the limits of the project and the environmental setting. It is highly recommended that clearing and grubbing of the project area be conducted during the non-breeding season for bird species, occurring after September 1 and prior to February 15, with plants being cut to ground level.

If any work will occur during the bird nesting season, a pre-construction survey will be conducted by a qualified biologist of this Division at least seven days before the start of construction.

The Migratory Bird Protection Standard Provision will need to be included in the PS&E packet as part of the projects scope of work.

All appropriate Storm water and Erosion Control Best Management Practices will be incorporated into the project specifications.

All pollution and litter laws and regulations will be followed by the contractor. Trash and construction materials must not be permitted to migrate outside of the project limits.

A qualified district biologist must be provided the Project Specifications & Expenditures Review Package for review and comments prior to 95% PS&E. In addition, a qualified biologist from the Division must be notified for attendance at any pre-construction meetings.

If this project scope should change for any reason, this Division is to be notified to determine whether current environmental documentation is adequate.

Cultural Resources

This project was determined that there is zero possibility that any cultural resources eligible for or listed on either the National Register of Historic Places or the California Register will be affected by the proposed undertaking, and this project is exempt from further review pursuant to Stipulation VII and Attachment 2 (class 1, 10, 11, 12, 13 & 25) of the 106 Programmatic Agreement. Should the project description or APE be altered, additional cultural resource studies or evaluations will be required.

Hazardous Waste Assessment

This hazardous waste assessment is based on our review of OEECS' memorandum (dated 03/11/09) requesting a Hazardous Waste Assessment and review of the aforementioned databases, and research of previous environmental assessment reports:

Aerially Deposited Lead (ADL) Contaminated Soils:

The construction of all proposed trash/treatment devices involves the disturbance of soil potentially contaminated with ADL because of the historical use of leaded gasoline. Particulate emissions in engine exhaust contained lead from leaded gasoline, which was deposited adjacent to roadways and/or runoff to road embankments and along right-of-way or easement areas. Since excess soil will be generated, an ADL site investigation (SI) will be required in Design phase (PS&E) to evaluate the degree of ADL soil contamination. For the purpose of project planning, it is recommended that any excess soil generated be Classified as Type Z-2,

CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM
Continuation Sheet

California regulated hazardous waste (non-RCRA) and shall be excavated, contained, and transported in accordance with State regulations.

Gasoline Stations:

The review of information from the Los Angeles Regional Water Quality Control Board's GEOTRACKER database indicates sites with soil and groundwater contamination. The sites are located on Sepulveda Boulevard near the junction the I-110. These are leaking underground storage tank (UST) sites with identified petroleum hydrocarbons and methyl tertiary butyl ether (MTBE). These sites either have active soil and groundwater remediation on-site or groundwater monitoring, or both. The proposed BMP's closest to these contaminated sites would be the two proposed infiltration basins.

Oilfield Operation:

An existing oilfield operation is located near the junction of the Lomita Boulevard Undercrossing (UC) with I-110. The oilfield operation consists of oil production wells and a storage facility along the I-110 northbound (NB) shoulder. Soil contamination associated with existing or historical oil operations cannot be ruled-out because of historical contamination associated with various concentrations of metals, petroleum hydrocarbons, polycyclic aromatic hydrocarbons, volatile organic compounds, and semi-volatile compounds. The proposed BMP closest to this operation oilfield site is 110-0455.

ATTACHMENT H
Right of Way Data Sheet

TO Min Wun
ATTN James Vu
PHONE 213-897-0116

R/W DATA SHEET

Date of Data Sheet 4/21/2009

ID NO

1600

SENIOR R/W P&M

ROUTE LA-110

PM_KM PM 3.81/6.52

EA 27610K

ALT Only one alternative in

WBS

REVISED

UPDATED

PROJ_DESC This is a Trash Maximum Daily Load (TMDL) project, to improve the water quality of Machado Lake by reducing the amount of pollutants discharged from Route 110.

This cost estimate is pursuant to the following statements which are based on information provided by Min Wun.

This cost estimate is valid for the above scoping report only. This is an estimate only and not an appraisal. It may be based on worse case scenarios. The estimate is subject to change and revision.

The mapping did not provide sufficient nor adequate detail to determine the limits of the Right of Way required and effects on the improvements.

The transportation facilities have not been sufficiently designed for our estimator to determine the damages to any of the remainder parcels affected by the project.

Residential displacement is not involved.

Utility facilities or Utility Right of Way are not affected.

Railroad facilities or R.R. Right of Way are not affected.

Right of Way work will be performed by Caltrans staff.

Major items of Construction Contract Work are not anticipated.

It is not known at this time whether there are any material borrow and/or disposal sites are required.

There are no potential relinquishments and/or abandonments.

Hazardous waste parcels are not evident

Time constraints precluded a detailed cost estimate.

The time schedule provided by the requesting party allowed for a field inspection.

RW COST ESTIMATE

	CURRENT VALUE	ESCALATED VALUE
R/ w acq.(incl.contingency G.w-condem.-adm.s'tl.)Permits	NONE	NONE
Clearance	NONE	NONE
RAP (cont rate.)	NONE	NONE
Escrow costs (cont rate.)	NONE	NONE
Utility relocation costs	NONE	NONE
Estimate of Reimbursed Appraisal Fee	NONE	NONE
Total estimated cost	NONE	NONE

ESCALATION RATE RW .07

ESCALATION RATE Utilities

CERT.DATE 12/12/10

According to James Vu, no RW is required for this job.

PARCEL DUAL
TYPES APPR

A		
B		
C		
D		
F		
W		

PARCEL COUNTRIGHTS
NEEDED

FEE	
EASE	
TCE	

TAKES

FULL	
PART	
TOTAL	

DISPLACEMENT OF UNITS

SFR	
MULTI	
BUS	

PARCELS WITH RAP

0

POTENTIAL
CLEARANCE
PARCELS

11

POTENTIAL
EXCESS
PARCELS

not known at this time.

POTENTIAL CONDEMNATION PARCELS

PARCEL

ESTIMATE OF PY'S

APPRAISALS

	PY	HOURS
A		
B		
C		
D		
F		
W		
Dual		

ACQUISITIONS

	PY	HOURS
A		
B		
C		
D		
F		

UTILITIES

	PY	HOURS
PY U4 1		
PY U4 2		
PY U4 3		
PY U4 4		
PY U5 7		
PY U5 8		
PY U5 9	0.0273	48.3

RAILROAD

	PY	HOURS
C & M		
SC		
LIC/RE		

CONDEMNATION

PY	HOURS

CLEARANCE

PY	HOURS

RELOCATION

PY	HOURS

PERMITS

PY	HOURS

UTILITY INFORMATION

Are Utilities affected: no

Quantities

Estimated Costs

Escalated Cos

[illegible]

Are utility easements required_____

No. of easements

Are Utility agreements no
required

TOTAL CURRENT COST NONE

CONST. COMPLETION DATE

UTILITY ESCALATION RATE

ESCALATED VALUE TO UTILITY CONSTRUCTION COMPLETION DATE NONE

Types of Util. Facilities & agrmts. required	Description
Water	Water supply is provided by the City of San Francisco. The project is located within the city limits and is served by the city's water supply system. The project is not connected to the city's water supply system and is not required to obtain a water supply agreement from the city.
Electricity	Electricity is provided by the City of San Francisco. The project is located within the city limits and is served by the city's electricity supply system. The project is not connected to the city's electricity supply system and is not required to obtain an electricity supply agreement from the city.
Gas	Gas is provided by the City of San Francisco. The project is located within the city limits and is served by the city's gas supply system. The project is not connected to the city's gas supply system and is not required to obtain a gas supply agreement from the city.
Other	Other utilities are provided by the City of San Francisco. The project is located within the city limits and is served by the city's other utilities supply system. The project is not connected to the city's other utilities supply system and is not required to obtain an other utilities supply agreement from the city.

RR INFORMATION

Are RR affected noDescribe affected
RR None.

WHEN BRANCH LINES OR SPURS ARE AFFECTED ,WOULD ACQUISITION AND OR PAYMENT OF DAMAGES TO BUSINESSES AND OR INDUSTRIES SERVED BY THE RAILROAD FACILITY BE MORE COST EFFECTIVE THAN SERVICE CONTRACTS ,OR GRADE SEPARATIONS REQUIRING CONSTRUCTION AND MAINTENANCE AGREEMENTS INVOLVED?

0

Explain Branch lines BNSF Railroad.

DISCUSS TYPES OF AGREEMENTS AND RIGHTS REQUIRED FROM THE RAILROADS. ARE GRADE XING REQUIRING SERVICE CONTRACTS ,OR GRADE SEPARATIONS REQUIRING CONSTRUCTION AND MAINTENANCE AGREEMENTS INVOLVED.

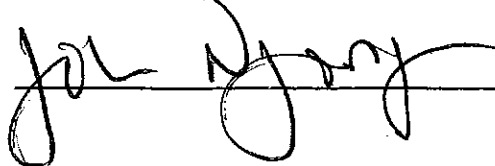
N/A

ESTIMATED COST TO THE STATE FOR ALL R.R. INVOLVEMENTS. \$0DATERight of Way Estimate prepared by Steve Flores3/26/09Railroad Estimate prepared by Edward Francis4/13/09Utilities Estimate prepared by Mark Lyles4/9/09

I have personally reviewed this R/W Data Sheet and all supporting information I certify that the probable highest and best use estimated values and assumptions are reasonable and proper subject to the limiting conditions set forth and I find this Data Sheet complete and current.

This Data Sheet is not to be signed by Chief unless accompanied by final scoping report(PR,PSR,PSSR) for review and/or signature.

CHIEF

6.30.09

ATTACHMENT I
Transportation Management Plan (TMP)

TRANSPORTATION MANAGEMENT PLAN DATASHEET

(Preliminary TMP Elements and Costs)

Co/Rte/PM LA-110, 3.81/6.52 EA 27610K Alternative No. NA

Project Limit Pacific Coast Highway to 223 Rd Street

Project Description Installing Gross Solids Removal Devices (GSRDs) and other treatments Best Management Practices (BMPs).

1) Public Information

- | | | | |
|-------------------------------------|------------------------------------|----|--|
| <input type="checkbox"/> | a. Brochures and Mailers | \$ | |
| <input checked="" type="checkbox"/> | b. Press Release | | |
| <input type="checkbox"/> | c. Paid Advertising | \$ | |
| <input type="checkbox"/> | d. Public Information Center/Kiosk | \$ | |
| <input type="checkbox"/> | e. Public Meeting/Speakers Bureau | | |
| <input type="checkbox"/> | f. Telephone Hotline | | |
| <input type="checkbox"/> | g. Internet | | |
| <input type="checkbox"/> | h. Others _____ | \$ | |

2) Motorists Information Strategies

- | | | | |
|--------------------------|------------------------------------------------|----|--|
| <input type="checkbox"/> | a. Changeable Message Signs (Fixed) | \$ | |
| <input type="checkbox"/> | b. Changeable Message Signs (Portable) | \$ | |
| <input type="checkbox"/> | c. Ground Mounted Signs | \$ | |
| <input type="checkbox"/> | d. Highway Advisory Radio | \$ | |
| <input type="checkbox"/> | e. Caltrans Highway Information Network (CHIN) | | |
| <input type="checkbox"/> | f. Others _____ | \$ | |

3) Incident Management

- | | | | |
|-------------------------------------|------------------------------------------------------------|----------|--|
| <input checked="" type="checkbox"/> | a. Construction Zone Enhanced Enforcement Program (COZEEP) | \$15,000 | |
| <input type="checkbox"/> | b. Freeway Service Patrol | \$ | |
| <input type="checkbox"/> | c. Traffic Management Team | | |
| <input type="checkbox"/> | d. Helicopter Surveillance | \$ | |
| <input type="checkbox"/> | e. Traffic Surveillance Stations (Loop Detector and CCTV) | \$ | |
| <input type="checkbox"/> | f. Others _____ | \$ | |

4) Construction Strategies

- | | |
|------------------------------------------------------------|----------|
| <input checked="" type="checkbox"/> a. Lane Closure Chart | |
| <input type="checkbox"/> b. Reversible Lanes | |
| <input type="checkbox"/> c. Total Freeway Mainline Closure | |
| <input type="checkbox"/> d. Extended Weekend Closure | |
| <input type="checkbox"/> e. Contra Flow | |
| <input type="checkbox"/> f. Truck Traffic Restrictions | \$ _____ |
| <input type="checkbox"/> g. Reduced Speed Zone | \$ _____ |
| <input type="checkbox"/> h. Connector and Ramp Closures | |
| <input type="checkbox"/> i. Incentive and Disincentive | \$ _____ |
| <input type="checkbox"/> j. Moveable Barrier | \$ _____ |
| <input type="checkbox"/> k. Others _____ | \$ _____ |

5) Demand Management

- | | |
|--------------------------------------------------------------------|----------|
| <input type="checkbox"/> a. HOV Lanes/Ramps (New or Convert) | \$ _____ |
| <input type="checkbox"/> b. Park and Ride Lots | \$ _____ |
| <input type="checkbox"/> c. Rideshare Incentives | \$ _____ |
| <input type="checkbox"/> d. Variable Work Hours | |
| <input type="checkbox"/> e. Telecommute | |
| <input type="checkbox"/> f. Ramp Metering (Temporary Installation) | \$ _____ |
| <input type="checkbox"/> g. Ramp Metering (Modify Existing) | \$ _____ |
| <input type="checkbox"/> h. Others _____ | \$ _____ |

6) Alternative Route Strategies

- | | |
|----------------------------------------------------------------------------------|----------|
| <input type="checkbox"/> a. Add Capacity to Freeway Connector/Ramps | \$ _____ |
| <input type="checkbox"/> b. Street Improvement (widening, traffic signal... etc) | \$ _____ |
| <input type="checkbox"/> c. Traffic Control Officers | \$ _____ |
| <input type="checkbox"/> d. Parking Restrictions | |
| <input type="checkbox"/> e. Others _____ | \$ _____ |

7) Other Strategies

- | | |
|-----------------------------------------------------------|----------|
| <input type="checkbox"/> a. Application of New Technology | \$ _____ |
| <input type="checkbox"/> e. Others _____ | \$ _____ |

TOTAL ESTIMATED COST OF TMP ELEMENTS =	\$15,000
-----------------------------------------------	-----------------

Project Notes:

1. Public Awareness Campaign (PAC) element was provided by Judy Gish of
Office of Media/Public Affairs on March 20, 2009.

2. Motorist Information Strategies

There are no existing CMS that may be used during construction:

3. Incident Management

COZEEP estimate was provided by Amjad Obeid on March 18, 2009.

4. Construction Strategies

It is anticipated that all work should be able to be completed with normal lane closures.

All closures shall conform with the hours provided in the

Maintaining Traffic Specifications.

5. Demand Management

Demand Management is not required since there are no long term closures reducing
freeway capacity in this project.

6. Alternate Route Strategies

Alternate Route Strategies are not required since there are no long term closures
reducing freeway capacity in this project.

PREPARED BY

Robert Colvin

Robert Colvin, T.E.

DATE 3/24/09

APPROVAL RECOMMENDED BY

Albert Yu

Albert Yu, S.T.E.

DATE 3/24/09

APPROVED BY

John Yang
John Yang, District Traffic Manager

DATE 3/24/09

Preliminary Chart

07-LA-110-3.81/6.52

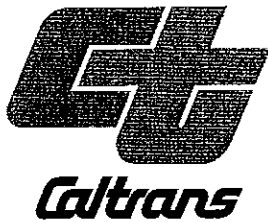
Chart No. 1																										
Freeway Lane Requirements and Hours of Work																										
County: LA													Route/Direction: 110/North													
Closure Limits: Pacific Coast Highway off-ramp to north of Sepulveda Blvd on-ramp																										
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	3	3	3	3	3	3	N	N	N	S	S	S	S	S	S	S	S	S	S	3	3	3	3	3		
Fridays	3	3	3	3	3	3	N	N	N	S	S	S	S	S	S	S	S	S	S	3	3	3	3	3		
Saturdays	3	3	3	3	3	3	3	3	S	S	S	S	S	S	S	S	S	S	S	3	3	3	3	3		
Sundays	3	3	3	3	3	3	3	3	3	3	S	S	S	S	S	S	S	S	3	3	3	3	3	3		
Legend:																										
3 Provide at least three adjacent through freeway lanes open in direction of travel																										
S Shoulder closure permitted																										
N No work permitted																										
REMARKS: Number of Through Traffic Lanes - 4																										

Preliminary Chart

07-LA-110-3.81/6.52

Chart No. 2 Freeway Lane Requirements and Hours of Work																									
County: LA													Route/Direction: 110/South												
Closure Limits: Sepulveda Blvd to Pacific Coast Highway																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	3	3	3	3	3	3	S	S	S	S	S	S	S	S	S	N	N	N	N	S	3	3	3	3	3
Fridays	3	3	3	3	3	3	S	S	S	S	S	S	S	S	N	N	N	N	N	S	3	3	3	3	3
Saturdays	3	3	3	3	3	3	3	3	3	S	S	S	S	S	S	S	S	S	S	3	3	3	3	3	3
Sundays	3	3	3	3	3	3	3	3	3	3	3	3	S	S	S	S	3	3	3	3	3	3	3	3	3
Legend:																									
3	Provide at least three adjacent through freeway lanes open in direction of travel																								
S	Shoulder closure permitted																								
N	No work permitted																								
REMARKS: Number of Through Traffic Lanes - 4																									

Long Form - Storm Water Data Report



Dist-County-Route: 07-LA-110

Post Mile (Kilometer Post) Limits:

PM 3.81/6.52 (KP 6.13/10.49)

Project Type: Implementation of Treatment BMPs

EA: 27610k

RU: 07-186

Program Identification: 20.XX.201.335

Phase: ☒PID ☐PA/ED ☐PS&E

Regional Water Quality Control Board(s): Region 4 - Los Angeles

Is the project required to consider incorporating Treatment BMPs?

☒Yes ☐No

If yes, can Treatment BMPs be incorporated into the project?

☒Yes ☐No

If No, a Technical Data Report must be submitted to the RWQCB

at least 60 days prior to PS&E Submittal. List submittal date: _____

Total Disturbed Soil Area: 2.42 Acres (0.98 Hectares)

Estimated Construction Start Date: 04/17/14 Construction Completion Date: 11/17/16

Notification of Construction (NOC) Date to be submitted: 03/17/14

Notification of ADL reuse (if Yes, provide date) ☐Yes Date: _____ ☒No

Separate Dewatering Permit (if Yes, permit number) ☐Yes Permit #: _____ ☒No

This Report has been prepared under the direction of the following Licensed Person. The Licensed Person attests to the technical information contained herein and the data upon which recommendations, conclusions, and decisions are based. Professional Engineer or Landscape Architect stamp required at PS&E.

James Vu, Registered Project Engineer/Landscape Architect

5/28/09

Date

I have reviewed the storm water quality design issues and find this report to be complete, current, and accurate:

Ojas Sheth, Project Manager

6/1/09
Date

Roger Castillo, Designated Maintenance Representative

06-01-09
Date

Ron Russak, Designated Landscape Architect Representative

06-16-09
Date

STAMP

[Required for PS&E only]

Shirley Pak, District/Regional SW Coordinator or Designee

6/16/2009
Date



Attachment K: Performance Indicator - BMP Treated Area

Outfall #	Outfall Id	Dir	Cross Street	Drain area (acre)	Recommendation		Pollutants of concern *	# pollutants treated	Treated area (acre)
					Yes/No	BMP Type			
1	110-0400	SB	Figuroa Place	7.89	No				
2	110-0395+	NB	PCH	1.3	Yes	GSRD Linear (combined 110-0395+,-0397+)	G	1	1.3
3	110-0397+	NB	PCH	0.3	Yes		G	1	0.3
4	110-0398+	NB	PCH	0.7	Yes	GSRD Linear (combined 110-0398+,-0403+)	G	1	0.7
5	110-0403+	NB	PCH	0.7	Yes		G	1	0.7
6	110-0406	SB	Figuroa Place	0.75	Yes	GSRD Linear	G	1	0.75
7	110-0416	NB	PCH	1.3	Yes	GSRD Linear (combined 110-0416,-0408+)	G	1	1.3
8	110-0408+	NB	PCH	0.9	Yes		G	1	0.9
9	110-0422	SB	N of PCH	1.41	No				
10	110-0429	SB	N of PCH	1.09	No				
11	110-0434	SB	PCH	1.89	No				
12	110-0441	SB	Lomita Blvd	1.92	No				
13	110-0452	SB	Lomita Blvd	1.03	No				
14	110-0455	SB	Lomita Blvd	1.21	Yes	GSRD linear	G	1	1.21
15	110-0463	SB	Lomita Blvd	1.32	Yes	GSRD inclined	G	1	1.32
16	110-0467	NB	Lomita Blvd	0.33	Yes	GSRD Inclined (combined 110-0467,-0468,-0480)	G	1	0.33
17	110-0468	NB	Lomita Blvd	0.63	Yes		G	1	0.63
18	110-0480	NB	Lomita Blvd	1.19	Yes		G	1	1.19
19	110-0486	NB	Lomita Blvd	0.36	Yes	GSRD Inclined (combined 110-0486,-0491,-0500)	G	1	0.36
20	110-0491	NB	Lomita Blvd	0.47	Yes		G	1	0.47
21	110-0500	NB	Lomita Blvd	1.15	Yes		G	1	1.15
22	110-0506	NB	Lomita Blvd	1	Yes	GSRD Inclined	G	1	1
23	110-0535A	NB	Spruce Lake Drive	4.17	Yes	Detention Basin (combine 110-0535A,-0535B,-0536A,-0537)	A,B,C,D,E,F,G,H,I	9	37.53
24	110-0535B	NB	Sepulveda Blvd	3.27	Yes		A,B,C,D,E,F,G,H,I	9	29.43
25	110-0536A	NB	Sepulveda Blvd	0.38	Yes		A,B,C,D,E,F,G,H,I	9	3.42
26	110-0537	NB	Sepulveda Blvd	0.43	Yes		A,B,C,D,E,F,G,H,I	9	3.87
27	110-0536B	NB	Sepulveda Blvd	1.74	No				
28	110-0543	SB	Sepulveda Blvd	1.75	Yes	GSRD linear	G	1	1.75
29	110-0547	SB	Sepulveda Blvd	1.59	Yes	Detention Basin (combine 110-0547,-0552)	A,B,C,D,E,F,G,H,I	9	14.31
30	110-0552	SB	Sepulveda Blvd	4.21	Yes		A,B,C,D,E,F,G,H,I	9	37.89
31	110-0577	NB	234th St	2.94	No				
32	110-0589	NB	Orchard Ave.	1.74	No				
Total Treated Area:									142

* Pollutants of concern:

- A: Total Suspended Solids
- B: Nutrients
- C: Pesticides
- D: Particulate Metals
- E: Dissolved Metals
- F: Pathogens
- G: Litter
- H: Biochemical Oxygen Demand
- I: Total Dissolved Solids

SHOPP Project Performance Output

[illegible]

ATTACHMENT K
Performance Indicators
Sheet 2 of 2